Catalog 1991 - 1993

Making A World Of Difference

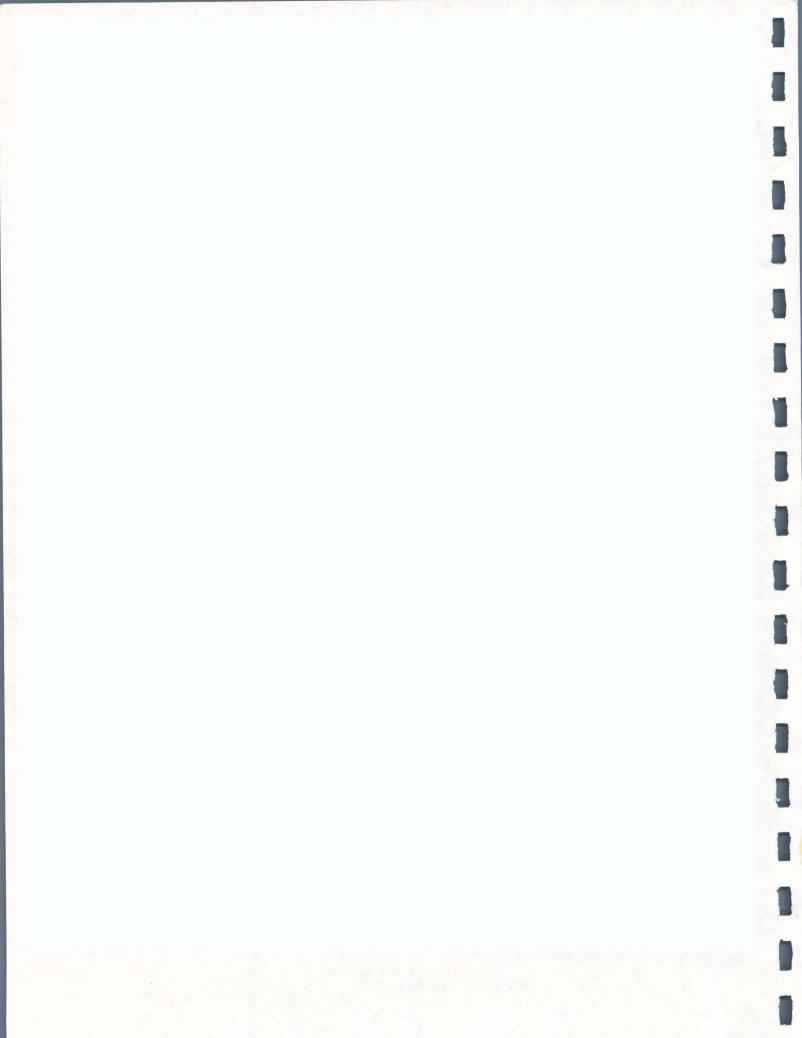


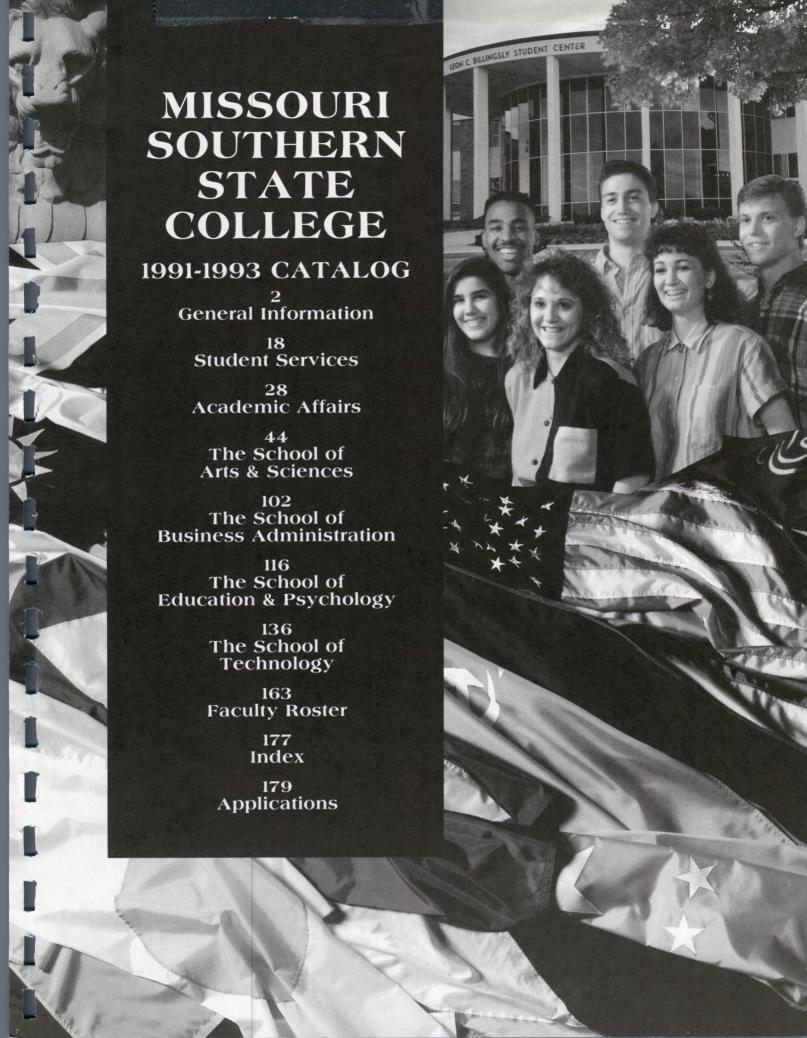


MISSOURI SOUTHERN STATE COLLEGE . JOPLIN

MRS. GAYE PATE LIBRARY

LEON C BILLINGSLY STUDENT CENTER





From the President.

The ideal public college fulfills its mission by educating citizens of all ages and socioeconomic backgrounds. Missouri Southern State College is proud of the role it plays in the intellectual and personal growth of its diverse student body. Our students discover here one of the finest values in higher education anywhere, with quality academic programs small-size classes, excellent and accessible professors, and reasonable cost.



Our curriculum combines a liberal arts foundation with innovative professional directions to enable our graduates to adapt to constantly changing professions. Our new, enhanced international education emphasis will enable our students to become more concerned and capable citizens of the nation and the world.

Julio S. Leon, President

Dear Student,

If you're entering college for the first time, or even coming back after several years' absence, there is information in this catalog you'll need. It's not the most exciting bedtime reading, but it does pack a lot of information about our academic programs and policies. If you need to know it, it's probably here. And it will be helpful throughout your college experience.

This catalog and our helpful staff also can answer your more immediate questions:

1. I haven't decided on a major yet. What do I do?

Southern has trained counselors to help you discover what your best interests and attributes might be. Visit with Dr. Earle Doman, Hearnes Hall 112, 625-9595. (Counseling Services, page 20)

2. I'm concerned about the transition from high school to college. Is there someone to help?

Counseling Services can help here too, as well as your College Orientation class. See Dr. Doman or Mrs. Lori LeBahn, Student Center 212, 625-9542. (*Orientation, page 18*)

3. Do you have an Honors Program?

Southern has an excellent and challenging Honors Program which includes a summer study option at Oxford University in England. Talk to Dr. Lanny Ackiss or Mrs. Patricia Kluthe, Hearnes Hall 115, 625-9686. (Honors Program, page 29)

4. Can I get some financial help with college costs?

A full range of financial aid programs are available to qualified students. Mr. Jim Gilbert and his staff can provide you with information and applications in Hearnes Hall 114, 625-9325. (Financial Aid, page 18)

5. What activities and organizations are available?

A host of special events, student activities and departmental organizations are available throughout the year. Drop by Val Carlisle's office, Student Center 101, 625-9320. (Student Activities, page 24. See also individual departments.)



Our Mission

Missouri Southern State College is a state-supported, comprehensive college offering programs leading to the bachelor's degree. Faithful to its original statutory charter, the College also offers continuing education courses and a number of two-year programs in technical and vocational areas for the benefit of the community.

The College's primary emphasis is the offering of a baccalaureate program that fosters the total education of each student. Central to that mission is a strong commitment to international education, to the liberal arts, to professional and preprofessional programs, and to the complementary relationship that must exist between liberal and professional education in order to prepare individuals for success in careers and lifelong learning.

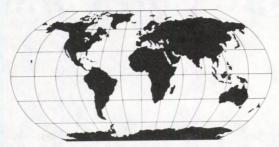
Inherent in its international approach to undergraduate education is the College's desire to prepare its students to understand world affairs, international issues and other cultures as seen through their history, geography, language, literature, philosophy, economics and politics. Knowledge and understanding of other cultures of the world also promote better understanding of our own valuable cultural diversity.

Missouri Southern's commitment to the liberal arts is reflected in a comprehensive program of general education requirements for all students to ensure that they have a breadth of educational experiences which will enable them to develop communication and critical thinking skills and to acquire and apply aesthetic, contemporary, civic, international, historical, mathematical, scientific and value-oriented perspectives.

The faculty and staff of Missouri Southern State College emphasize quality teaching and learning as the most important attributes of the College, complemented by scholarly and creative expression and dedicated community service. Community service involves responsiveness to the Southwest Missouri region as well as serving as the intellectual, creative and cultural center of the area.

In order to remain loyal to the trust given to the College by the people of the State of Missouri, Missouri Southern State College will:

- periodically review its mission in light of contemporary changes in society and in the needs of the people of Missouri;
- continually assess the effectiveness of its programs in order to ensure their quality and integrity.



International Education

On June 15, 1990 the Board of Regents of Missouri Southern State College approved a recommendation to pursue an international approach to undergraduate education.

The move to an international approach to our educational mission is prompted by the realization that the successful citizens of the 1990's and the 21st century will have to possess better knowledge and awareness of the people, languages and cultures of other countries of the world. The dramatic changes that are taking place in the economic and political systems of the Soviet Union and Eastern European countries as well as the challenge by Asian and European countries to American economic leadership make self-evident the need for a college education with a strong global perspective.

Missouri Southern State College will phase in, over the next few years, different programs and activities designed to internationalize our college. Among these are included:

- Revising the curriculum to include a global perspective in every possible course.
- Expanding the teaching of foreign languages to include, among others, Russian, Chinese, Arabic, Italian, Japanese, etc.; in addition to German, French and Spanish.
- Increasing opportunities for Missouri Southern students to study abroad.
- Staging conferences and lectures on world affairs, as well as cultural and artistic programs with international performers.
- Creating new courses in international studies.
- Increasing the participation of international students.

As these programs are implemented, our present and future students should take advantage of them and prepare for the global environment of the future.

Core Curriculum

"The task of education is to ensure both a celebration of the individual and an understanding of the interdependence of the individual within the larger community."

The Baccalaureate Degree

Scholars cite the following as the most common aims of a baccalaureate degree:

- Undergraduates should acquire an ample store of knowledge, both in depth, by concentrating in a particular field, and in breadth, by devoting attention to several different disciplines.
- They should gain an ability to communicate with precision and style, a basic competence in quantitative skills and a capacity to think clearly and critically.
- Students should also become acquainted with the important methods of inquiry and thought by which we acquire knowledge and understanding of nature, society and ourselves.
- They should develop an awareness of other cultures with their differing values, traditions and institutions.
- By having the chance to explore many opportunities, they should acquire lasting intellectual and cultural interests, gain in self-knowledge and ultimately be able to make sound choices about their future lives and careers.
- Through working and living with a wide variety of fellow students, they should achieve greater social maturity and acquire a tolerance of human diversity.

These common human experiences which transcend culture and time should be the components of an undergraduate degree. The faculty of Missouri Southern has translated the above into the following goals for its Core Curriculum:

Communicating: The student can send and receive information in a variety of modes (written, graphic, oral, numeric and symbolic), within a variety of settings (one-to-one, in small and large groups), and for a variety of purposes (for example, to inform, to understand, to persuade and to analyze).

Solving Problems/Critical Thinking: The student can analyze a variety of problems (for example, scientific, social, personal), select or create solutions to problems and implement solutions.

Clarifying Values: The student can identify personal values and the personal values of other individuals, understand how personal values develop and analyze the implications of decisions made on the basis of personally held values.

Functioning Within Social Institutions: The student can identify those activities and institutions which constitute the social aspects of a culture (for example, governmental and economic systems, religion, marital and family institutions, employment and civic volunteer and recreational organizations), understand the impact that social institutions have on individuals in a culture; and the student's own and others' personal functioning within social institutions.

Understanding Science and Technology: The student can identify those activities and products which constitute the scientific/technological aspects of a culture (for example, transportation, housing, energy, processed food, clothing, health maintenance, entertainment and recreation, moodalteration, national defense, communication and data processing), understand the impact of such activities and products on the individuals and the physical environment in a culture and analyze the uses of technological products in a culture and the student's personal use of such products.

Understanding the Arts: The student can identify those activities and products which constitute the artistic aspects of a culture (for example, graphic, art, music, drama, literature, dance, sculpture, film and architecture); understand the impact art, in its various forms, has on individuals in a culture; and analyze the uses of works of art within a culture and the student's personal use of art.

The curriculum at Missouri Southern is designed in such a manner that these human experiences permeate each class taught at the institution. The graphic illustrates the cohesiveness of the student experience. (See next page.)

The **Core Curriculum** is the base of the graphic. Selected courses are designed to emphasize one or more of the goals described above. All baccalaureate degree candidates are required to gain minimum competency in these experiences. (See Core Curriculum, page 35.)

A **Major** or an extended study unit is required of all students. The curriculum is designed to allow limited experimentation

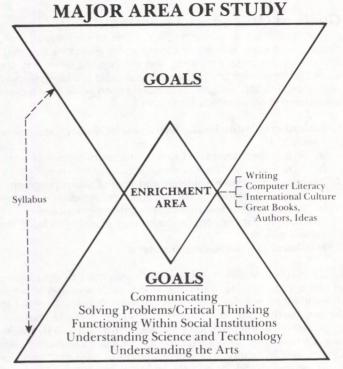
Core Curriculum

in selecting that major. However, if a student wishes to graduate within four years, a major should be selected by the end of the third semester. (See specific majors listed within the narration of the four schools.)

The Enrichment Area insures a cohesive, integrated program of study from the freshman to the senior year. The course syllabus requires the attention of the Core Curriculum goals in each course taught on campus. The Writing Program is designed to insure acceptable composition permeates the total course of study. The Computer Literacy requirement rests within the discipline. Students must perform this competency within their major. The citizens of the 21st century cannot hope to prosper without a thorough knowledge of the cultures of the world.

International Culture permeates the curriculum. The thrust of our American Culture component is to insure the preservation of our value system, our democratic ideals and our way of life. The six required courses in the Core Curriculum are testimony to this strong belief. Western civilization is based upon a selected few Great Books, Authors and Ideas. The curriculum is designed to insure competency with this area.

The graphic illustrates a cohesive, integrated curriculum of undergraduate education.



CORE CURRICULUM

"To furnish the means of acquiring knowledge is . . . the greatest benefit that can be conferred upon mankind. It prolongs life itself and enlarges the sphere of existence."

John Quincy Adams

Assessment of Outcomes

Goals of Outcomes Assessment

Assessment is an on-going, cyclical effort of identifying goals, developing programs to achieve those goals, evaluating the effectiveness of the programs, analyzing the results, redefining the goals and improving the programs. That cycle is a basic responsibility of all faculty and administrators. Stated goals of outcomes assessment at Missouri Southern are:

- Evaluation of institutional effectiveness by research and assessment of:
 - a. School department and Core Curriculum programs
 - b. Academic and developmental student outcomes
- 2. Improvement of both academic and student affairs programs:
 - a. To increase student academic and developmental outcomes
- b. To increase student retention and degree completion
- Provision of data needed for long-range planning to fulfill the college mission
- 4. Fulfillment of governmental mandates

In its mission, Missouri Southern is committed to developing effective programs to fulfill the needs of the students while developing knowledge, skills and positive attitudes. In order to accomplish that goal, on-going assessment is conducted not only by professors in the classes offered each term, but also by faculty and administration in annual program reviews. The Assessment Center assists faculty and administration in gathering data for those reviews. In addition, a Faculty Assessment Advisory Committee meets regularly with the administration to study current assessment methods and make recommendations for improvement of the College's assessment program.

Program For Assessment of Outcomes

Importance of assessment for college accountability is underscored by a Board of Regents Policy which requires that students participate in assessment activities when requested. Information obtained from standardized tests, faculty developed tests, surveys, student research, portfolio review, student interviews and performances is used to develop both quantitative and qualitative data needed for program review. Three identified areas of student outcomes are assessed each year: Core Curriculum, departmental majors and student development. In addition, follow-up studies of alumni and employers are conducted periodically.

Core Curriculum: Basic to any degree obtained at the College is the Core Curriculum. A Faculty Core Curriculum Oversight Committee is charged with reviewing the Core Curriculum requirements, reviewing student outcomes in this area and making recommendations for program changes if needed.

Data for study are gathered each year by administering a standardized test and needed surveys to incoming freshmen and exiting seniors. The ACT COMP (American College Testing College Outcome Measures Program) is a standardized test used to measure the impact of a Core Curriculum on students as they progress through a degree program. The test is designed to assess skills developed in Missouri Southern's Core Curriculum. Students are called upon to analyze, synthesis, apply and evaluate information, rather than just to recall or recognize content.

Departmental Majors: The faculty and administration of each department are responsible for evaluating the effectiveness of their programs. All departments have developed outcomes assessment programs for graduating seniors. Information gathered from quantitative and qualitative assessment is used by the department to review programs and make recommendations for curricular changes if needed. A variety of assessment methods are used by the various departments.

Departments which offer degrees that lead to state or national certifications use the required standardized tests for entrance and certification as their quantitative measures. These departments include accounting, dental hygiene, education, medical technology and nursing. Departments which use standardized major field tests that are offered by the Educational Testing Service or by their particular professional organization include biology, business administration, chemistry, English, environmental health, history, management technology, mathematics, physics, political science and sociology.

In major areas where standardized tests are currently unavailable, departmentally developed assessment plans have been implemented. The plans utilize one or more of the following methods: faculty developed exams, portfolio review, student interviews, external examiners, capstone projects and simulations, among others. The art, communications, computer information science, criminal justice administration, military science, music, psychology, Spanish and theatre departments have developed such plans.

Student Development: The impact of a college is not limited to the classroom. While Core Curriculum and departmental major assessment is focused on knowledge and skill outcomes, student development assessment focuses on social and personal growth of students both in the classroom and on campus outside of the classroom. Surveys and opinionnaires are the primary methods of gathering data to assess student development. Data are collected from entering students, withdrawing students and graduating students each year to assess current attitudes and opinions. Research of lasting college impact is conducted with periodic surveys of alumni, employers and members of the local community.

Results of Assessment of Outcomes

It is impossible to list here the entire results of outcomes assessment at Missouri Southern; many volumes of data would be needed. Presented below are a few of the results obtained in recent years.

Core Curriculum

In the Spring Semester, 1991, Missouri Southern administered the ACT COMP to nearly 600 senior students. Many of them had taken the same exam as freshmen, and thus were participants in a longitudinal study. They achieved a mean score of 188.1, which means that Southern's seniors scored better on average than 52% of the many thousands of similar students nation wide who also participated in this longitudinal study. Some of the institutions that also participated include Hardin-Simmons University, Illinois Wesleyan University, Northeast Missouri State University, Ohio University, University of Tennessee, and William Jewell College.

Assessment of Outcomes

Teacher Education

Graduates of Southern's teacher education program have been required to take the National Teachers Examination since 1969. Southern's graduates have consistently performed above the national averages.

National Teachers Examination

Professional	Spri	ng, 1989	Spring, 1990		
Knowledge Test	Score	Percentile	Score	Percentile	
MSSC	668	64	667	70	
National	658	48	657	44	

The table shows that Missouri Southern graduates performed significantly better than the national average in both years, just as they have done in past administration of the examination.

Nursing

The graduates of the Nursing Program at MSSC have consistently excelled in the State Board Examination.

Department of Nursing

Year	1990	1989	1988	1987	1986
Number of Graduates	28	28	35	28	31
Number of Graduates Writing NCLEX	28	28	35	28	31
Number of Graduates					
Passing NCLEX					
(first time)	28	28	34	28	29
% Passing	100%	100%	97%	100%	94%
MO % Passing	94.5%	86.8%	85%	92%	92%
National % Passing	91.9%	86.5%	70%	91%	92%

Radiologic Technology

In the period 1986–1990, 100% of graduates passed National Registry Examination on first attempt.

Dental Hygiene

During the 1986–1990 period, passage rate on licensing examinations was 98%.

Departmental Exams

Long-range studies are now being conducted in the departmental majors. The data collected thus far indicates that average scores achieved by Missouri Southern students are repeatedly at or above national averages. In addition, surveys conducted to assess the impact of the college on student development and on the community yield very positive results.

The results of outcomes assessment have been used in recent years to re-define the mission of the college and to restructure the core curriculum. Additionally, departments have redefined their major requirements and have added classes where needed and have deleted classes where effectiveness was not evident. Improvement of programs to increase student outcomes is first and foremost the driving force behind the assessment program.

"No school is static.

If it is not improving, it is declining."

Larry Lezotte, Effective Schools Research

Non Scholae Sed Vitae Discimus "Education not for a living, but for life."

The faculty of Missouri Southern believes all educated persons should be familiar with the knowledge base on which our society is built. We know that over the course of a lifetime most people in America will change occupations and careers several times. While technical capability and competency in the major area are essential, especially for entry level employment, advancement to higher levels always requires going beyond technical capabilities and current technology. We must be concerned with much more than preparation for the first job after graduation. That is why Missouri Southern is concerned with total education.

As an educated person, you should

- * communicate well in both written and spoken forms;
- * understand quantitative ideas;
- * work well with both groups and individuals;
- * analyze situations and ideas critically and objectively;
- * know the historical, political and cultural heritage of your nation;
- * understand something of the cultures of other societies;
- * be open to new ideas and perspectives beyond what you have known in the past.

All these attributes are of equal importance to you, regardless of career choice or technical skill. They will serve you well throughout your lifetime. Acquiring those attributes is what we mean by the "total education of the person."

Here are some of the ways we serve your total educational needs:

Teaching Emphasis

Missouri Southern is an undergraduate college. Therefore, the faculty has one primary responsibility—to help you earn your bachelor's (or baccalaureate) degree. Here you will not be taught by some other student. From your first day, you will be taught by experienced faculty, many of whom have the highest degree available in their field.

Core Curriculum

The faculty of Missouri Southern has designed a series of courses that all students earning a bachelor's degree must successfully complete. This Core Curriculum totals about 60 semester hours of credit, or almost half of the total of 128 semester hours required for the bachelor's degree. It provides a broad range of subjects for a solid foundation of liberal arts education to help accomplish that "total education." It gives you the opportunity for an experience which is usually associated with exclusive private liberal arts colleges. (On page 35 you will find a complete description of the CORE.)

Major Area of Study

Missouri Southern continues to offer the highest quality programs possible in the Schools of Arts and Sciences, Business Administration, Education and Psychology, and Technology. Many of our programs are truly outstanding, and as an institution which places

teaching first, students receive the full time and attention of the faculty.

International Mission

The world is changing rapidly and dramatically. The future will belong to those who have an understanding and appreciation for the world beyond the boundaries of our country. That is why Missouri Southern has chosen to emphasize the global aspects of our entire curriculum, and to add the international dimension to all of our courses wherever possible.

Assessment of Outcomes

Missouri Southern continually assesses the effectiveness of its programs, including the Core Curriculum and all major study areas. The assessment information helps us revise and improve our programs. In this way, we ensure our curriculum is dynamic and up to date and not a static monument to past practice.

Student Services

A great deal of college education goes on outside the classroom. An array of extracurricular activities are offered to meet almost every academic and social interest. In addition, a variety of services are available to meet other educational and personal needs.

Non-traditional Students

Missouri Southern sees its sizable enrollment of non-traditional students (those over 25 years old) as a great advantage. Rarely do we find "real world" situations in which people interact exclusively with others of their own age. On our campus, students come to see each other as friends and allies, and learn to develop healthy relationships with a variety of people.

Special Programs

Your opportunity for total education is enriched through a variety of special programs including study abroad, the Honors Program, study at Oxford University in England, internships and independent study opportunities and special cultural events such as the Warsaw Philharmonic in 1990 and the biennial Missouri Southern International Piano Competition.

More complete information on all of these areas is found in this catalog. And, of course, our faculty and staff are always willing to help you in any way to make the most of your college education. Don't hesitate to ask. We're here for you!

Fee Policies

Schedule of Fees

Incidental Fees

Fall & Spring	Missouri	
91-92	Resident	Non-Resident
1 thru 12 hours	\$53.00 per hour	\$106.00 per hour
13 and above	\$39.00 per each additional hour	\$ 39.00 per each additional hour
Summer Session 91	\$48.00 per hour	\$ 96.00 per hour

Other Fees		
Application for Admission	\$	10
Applied Music	\$	50 per cr. hr.
Art Materials (Ceramic, sculpture, jewelry,		
selected)	\$	10
Change of Class Schedule (add/drop fee)	\$	5
Commencement	\$	20 - 30
Laboratory Breakage and Materials	C	ost
Late Registration	\$	10
National Teachers Examination (required for		
BSE major)	\$	20
Parking (all students, each semester)	\$	3
Radiologic Technology Special Fees First term	\$	100
All other terms, each	\$	40
Senior Music Recital Fee	\$	50
Student Activity (full-time)	\$	20
Part-time	\$	10
Textbook Rental and Service Charge (\$2 per		
hour refundable)	\$	5 per cr. hr.
Transcript (first 2 without charge)	\$	1
Residence Hall Cost (per semester)	\$1	1170
Refundable Security Deposit	\$	75
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THE COLLEGE RESERVES THE RIGHT TO CHANGE FEES WITH-OUT NOTICE.

Payment of Fees

1. Class Registration

At the time of enrollment, each student is required to pay a \$25.00 pre-enrollment fee before enrolling in classes for the semester. This fee, which reserves the student's class schedule, is credited to the student's account with the College. When enrolling, the student will receive a class schedule and a statement of estimated fees due and the deadline for payment.

2. Student Billing System

Missouri Southern operates a student billing system which bills the student after the first week of classes for all unpaid fees. Fees must be paid in full by the end of the third week of the semester. It is extremely important to realize that a financial obligation is incurred at the time of enrollment. Although a statement of account is not mailed until after classes have begun, services are rendered as of the first day of class. Unless a student officially withdraws prior to the first day of class, fees should be paid subject to the stated refund policy. Students withdrawing on or after the first day of class will also be billed in accordance with this policy.

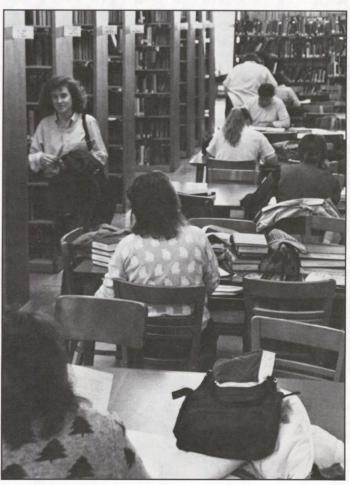
Failure to pay fees by the date indicated will result in the student being dropped from classes but will not relieve the financial obligation for those classes. Students expecting their fees to be paid through financial aid sources must have all documentation filed with the Financial Aid Office by August 1st for the Fall term and January 1st for the Spring term in order to receive consideration for a payment deferment.

Appeals concerning special problems pertaining to fees should be directed in writing to the Senior Vice President in Hearnes Hall, Room 200.

3. Residence Hall fees may be paid in full by the first day of the semester or in three installments as indicated below.

Fall Semester	Spring Semester
August 15\$390	January 10 \$390
September 15 \$390	February 15\$390
October 15 \$390	March 15 \$390

Students will not be permitted to move into the Residence Halls without remitting payment as indicated above or providing evidence of confirmed financial aid.



Fee Policies

Fee Information

Application for Admission A non-refundable fee is charged for processing applications for admission. The payment of this fee should be mailed with the application.

Applied Music For one 30-minute lesson per week in applied music, the usual fee is \$50 per credit hour.

Art Materials This fee provides for materials such as clay, glazes, waxes, solder and other similar items necessary for the course projects. Other materials are required to be purchased by students such as paper, brushes, watercolors or oils.

Change of Class Schedule Students are charged \$5 for each class change made after classes begin (refer to College Calendar).

Commencement Candidates for the associate or baccalaureate degrees are charged a commencement fee. This covers the cost of the diploma, cap and gown and other commencement activities. The fee is subject to refund only when the candidate fails to qualify for graduation.

Evening Session Students enrolled in evening classes for regular college credit courses, applicable toward an associate or baccalaureate degree, are subject to the same fees, rules and regulations of the day session. Special fees are announced in the Evening Session Bulletin for classes not applicable to an associate or baccalaureate degree.

Laboratory Breakage and Materials There are no charges for the use of equipment in laboratories. The student will be expected to pay for excessive breakage or loss of equipment due to negligence on the part of the student. A fair actual value of the loss will be determined by school officials. Students will pay for materials used in individual projects.

Late Registration A late registration fee is charged students who register after classwork begins. This fee is not refundable.

Miscellaneous Fees Occasionally certain additional fees may be assessed for classroom materials such as computer disks, computer manuals, training equipment or other items utilized in class instruction.

Student Activity Fee This charge is to support activities of the Student Senate, the Campus Activities Board and the *Crossroads* yearbook. This fee also is used to provide pictured identification cards required to be carried by all students. This card will allow admittance to most sports, theatre and music events of the College, and will allow the student to check out books from the College Library.

Summer Session Rules and regulations which govern admission to the first and second semester during the regular school year shall apply to the Summer Session.

Textbook Rental and Instructional Services The College operates a textbook rental system through the College Bookstore. While

certain courses require the students to purchase books, most courses will only require the use of a rental textbook. At the time the rental books are checked out, the student will be required to pay a security fee based on the number of enrolled credit hours (\$25.00 for students enrolled in 1-6 hours; \$50.00 for students enrolled in over 6 hours). This fee will be credited to the student's account with the College. Students must return these textbooks at the end of each semester at which time they will receive a rental fee refund which will be credited to their account. Purchased books will not be billed, but must be paid for at the time of purchase.

Transcripts Each student is entitled to two official transcripts without charge. Payment must accompany the written request for each additional transcript.

Refund Policy

(Except for Residence Hall Charges)

During the course of any semester, if a student finds it necessary to drop individual classes or fully withdraw from college the fee refund policy is as follows:

For Fall and Spring Semesters	
Prior to the first day of class	100% refund
First through fifth weeks	
After the fifth week	
For Summer Semester	
Prior to first day of class	100% refund
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After the third week 0% refund

Withdrawal from classes during the refund period means that the student will be responsible for 40% of the cost of tuition. The \$25.00 pre-enrollment fee is non-refundable if the student withdraws after classes begin.

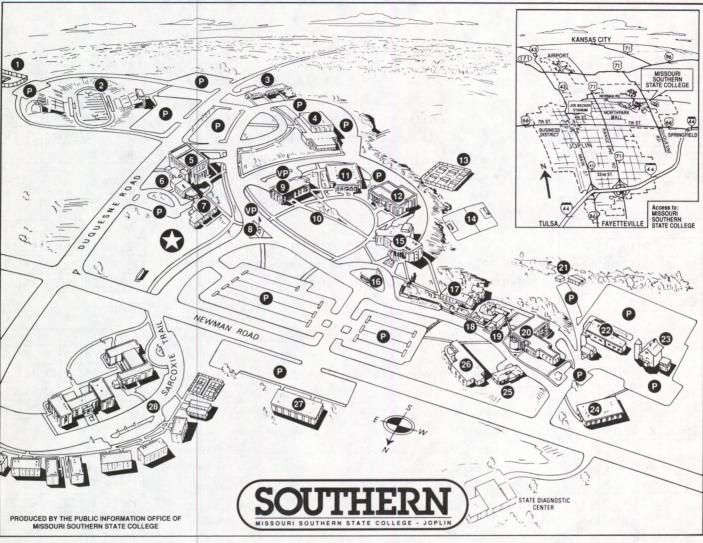
To be eligible for a refund, the student must formally complete a drop or a withdrawal form and submit it to the Registrar's Office. Failure to attend classes will not constitute a withdrawal.

If the student withdraws after payment of any or all fees for the semester, any monies due to the student will be mailed after fee refunds have been applied. However, if the college costs have been paid partially or fully by financial aid (scholarships, grants, loans, other government assistance programs, etc.) the refund monies will be first applied to the financial aid program source. Once these awards have been fully refunded, any remaining balances will be forwarded to the student.

All refunds must be claimed during the term for which the refund applies. Students who feel that individual circumstances warrant exceptions to this policy may appeal in writing to the Senior Vice President. This appeal must be made during the term for which the refund applies.

For policies concerning fee refunds for Residence Hall charges, please refer to the Housing contract.

Campus Directory



Building Directory

- 25 Alumni House Alumni/Development Office
- Missouri Southern Foundation **Anderson Police Academy** Firing Range Law Enforcement, ROTC Departments Regional Crime Laboratory
- Art Building
 Spiva Art Center
- Barn Theatre, (destroyed by fire 11/90) Billingsly Student Center Bookstore Food Service Meeting/Game Rooms Placement Office Public Information Office Student Activities, Student Services Ticket Office
- **Biology Pond** Picnic Pavilion Solar Energy Laboratory
- **Campus Directory**
- Webster Hall (under construction)

- 9 Hearnes Hall
 - Administrative Office Admissions, Financial Aid Continuing Education Counseling **English Department** Registrar
- **Hughes Stadium**
- Kuhn Hall
- Kungle Softball Field KXMS Radio
- Matthews Hall
 Business Administration
- Computer Science
 Mission Hills Mansion Complex Social Sciences Department
- **MSTV Studio** Communications Department
- Music Building Phinney Recital Hall
- Reynolds Hall Biology, Mathematics, Physical Sciences Departments
- Soccer Field Spiva Library Learning Center

- **Student Residence Halls**
- Stults Memorial Garden
 - Taylor Hall Child Development Center **Education Department** Psychology Department
- **Taylor Performing Arts Center** Theatre Department
- 24 Ummel Technology Building Manufacturing Technology Drafting/Design
 Dental Hygiene Departments

 Tennis Courts
- 22 Maintenance Office Central Receiving Greenhouse Campus Security Veterans' Memorial
- Young Gymnasium Physical Education Department Varsity Athletics Sports Information Office Swimming Pool/Racquetball
- P Parking VP Visitor Parking

Joe Becker Stadium, home of the Baseball Lions, is on 3rd and High Streets.

Academic Calendar

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1991 Summer Semester
May 31
1991-92 Fall Semester
August 15 Faculty Study Conference
August 15 Day Registration and Evening Registration August 16 Day Registration August 19 Classes Begin August 23 Last Day for Class Changes & Late Registration September 2 Dismissal for Labor Day September 20 . Withdrawal After This Date No Refund of Fees October 18 Last Day to Drop With a "W" November 27-29 Dismissal for Thanksgiving Holiday December 2 Classes Resume December 11 Last Day of Classes December 12 Reading Day - No Finals December 13-19 Final Examinations December 19 End of Semester
1991-92 Spring Semester
January 9 Faculty Study Conference
January 9 Day and Evening Registration January 10
January 17 Last Day for Classes Changes & Late Registration
February 14 Withdrawal After This Date No Refund of Fees February 19

May 6Last Day of ClassesMay 7Reading Day - No FinalsMay 8-14Final ExaminationsMay 14End of Second Semester

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Academic Calendar

Academic Calendar

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1992	Summer	Semester

June 1 Day & Evening Registration
June 2
June 4 Last Day for Class Changes and Late Registration
June 18 Withdrawal After This Date No Refund of Fees
July 1 Last Day to Drop with a "W"
July 2 4th of July Holiday
July 23 Last Day of Classes
July 27 Final Examinations

1992-93 Fall Semester

August 20 Faculty Study Conference
August 20 Day Registration and Evening Registration
August 21 Day Registration
August 24
August 28 Last Day for Class Changes & Late Registration
September 7 Dismissal for Labor Day
September 28 Withdrawal After This Date No Refund of Fees
October 23 Last Day to Drop With a "W"
November 25-27 Dismissal for Thanksgiving Holiday
November 30
December 11Last Day of Classes
December 14-18 Final Examinations
December 18 End of Semester

1992-93 Spring Semester

January 14 Faculty Study Con	nference
January 14 Day and Evening Regi	istration
January 15 Day Regi	istration
January 18 Classe	es Begin
January 22 Last Day for Classes Changes & Late Regi	istration
February 19 Withdrawal After This Date No Refund	of Fees
February 24 Senior Assessm	ent Day
March 15-19	g Break
March 22 Last Day to Drop With	h a "W"
May 12 Last Day of	Classes
May 13 Reading Day - N	lo Finals
May 14-20 Final Exam	inations
May 20 End of Second Se	emester
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Correspondence/Facilities

Missouri Southern State College Joplin, MO 648 (417) 625-9300 24 hr. answering service 782-MSSC For admissions and financial aid information in Italian toll free 1-800-492-4811 Admission of students Director of Admissions Alumni affairs Director of Alumni Affairs Business affairs Director of Admissions Catalog and bulletins Director of Admissions Credit evaluation/transcripts Registrar Evening session. Vice President for Academic Affairs Faculty appointments Vice President for Academic Affairs Financial aid Office of Financial Aid Gifts and annuities President Housing Director of Housing Loans Office of Financial Aid News/publications Director of Public Information Orientation Director of Placement Services Student employment Office of Financial Aid Student organizations Coordinator of Student Activities Summer session Vice President for Academic Affairs Testing Vice President for Academic Affairs Testing Director of Counseling Veterans affairs Veterans Counselor	625-9378 625-9396 625-9396 625-9378 625-9389 625-9394 625-9394 625-9325 625-9500 625-9522 625-9365 625-9343 625-9343	Athletics (men) 625-9317 Athletics (women) 625-9316 Bookstore 625-9380 Cafeteria 625-9360 Child Development Center 625-9360 Continuing Education 625-9384 Counseling 625-9324 Crime Laboratory 625-9382 Dental Hygiene Clinic 625-9379 Grammar Hotline 624-0171 Honors Program 625-9366 KXMS-FM 625-9356 Learning Center 625-9373 Library 625-9386 Maintenance 625-9387 Missouri Southern Foundation 625-9386 MSTV 625-9375 Purchasing 625-9388 Safety & Security 625-9388 Safety & Security 625-9391 School of Arts & Sciences 625-9385 Business Administration 625-9314 Technology 625-9328 Sports Information 625-9328 Student Activities 625-9320 Swimming & Racquetball 625-9390 Ticket Office 625-9392
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Additional areas (for academic department numbers, see department information in each school)

Facilities

Missouri Southern moved to the present campus site in 1967. With few exceptions, all of our present facilities have been constructed since that date, and thus we have a modern and up-to-date physical plant.

Hearnes Hall houses central administration and the English department.

Spiva Library also houses the Learning Center.

The School of Education and Psychology is located in Taylor Hall.

The Mansion, landmark from the 1920's, provides facilities to the departments of social sciences and communications.

The Anderson Police Academy is the location for the School of Technology, military science, the Crime Lab and the department of criminal justice administration.

Taylor Auditorium and Spiva Art Center are used by fine arts students and faculty.

Kuhn Hall houses the nursing department.

Reynolds Hall provides classroom, office and laboratory space for mathematics and sciences.

The **Ummel Technology Building** is used by CADD, CAMT and the dental hygiene programs.

Matthews Hall is the facility for the School of Business Administration and the department of computer science.

Billingsly Student Center provides facilities for administrative offices as well as student activities.

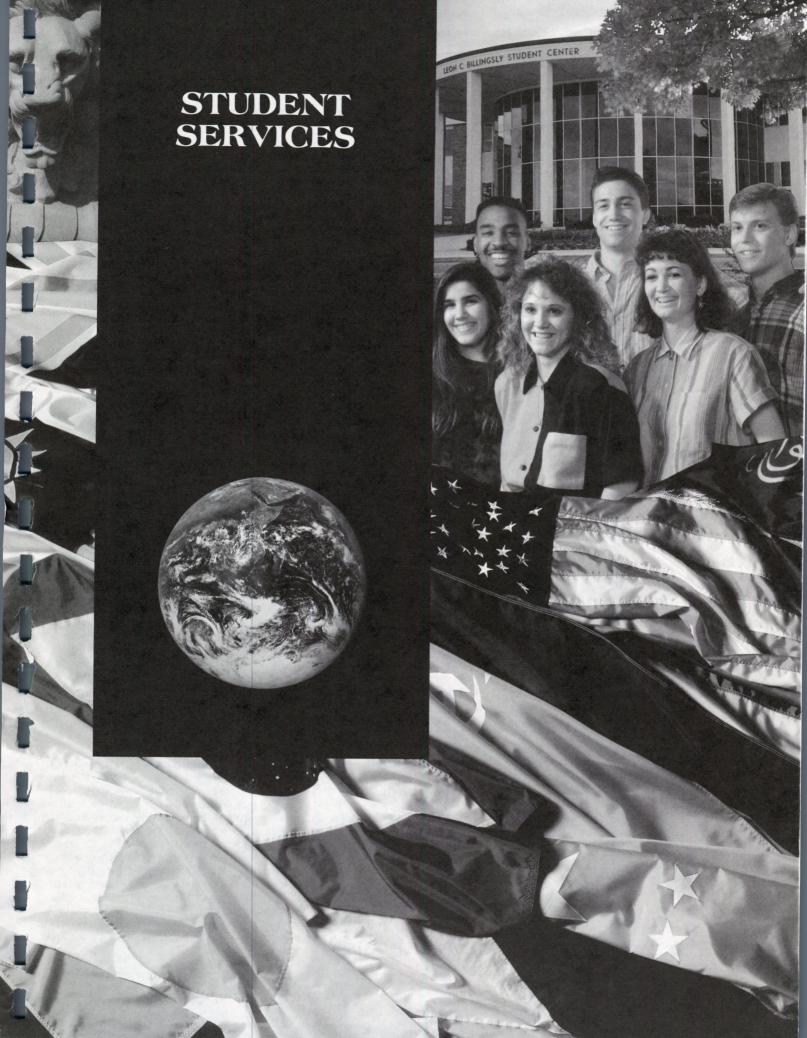
The **Television Lab** and connected buildings provide facilities for broadcasting and communications activities.

Young Gymnasium and **Hughes Stadium** are modern teaching and athletic facilities.

The **Alumni House** provides offices for the Southern Foundation and alumni operations.

Residence facilities include **South Hall, Webster Hall, Annex 1** and **2** and **Buildings A, B, C, D, E, F, G** and **H.**

Additional facilities include maintenance and shop buildings.



Vice President for Student Services

Glenn D. Dolence Billingsly Student Center 211, 625-9531

Staff Allman, Beard, Binns, Carlisle, Carnahan, Chism, Deem, Disharoon, Dobson, Doman, Fowler, Frazier, Frerer, Gilbert, Gipson, Hartley, Humphrey, Karst, LeBahn, Pennington, Vermillion, Wemer

Purpose and Objectives

Because all education does not take place in the classroom, the Student Services staff provides a wide variety of support services for students at Missouri Southern. The department includes the Student Services Central Office, Admissions, Financial Aid, Counseling Services, College Orientation, Residence Life, Student Activities, Student Health Services and Intercollegiate Athletics. (For admissions requirements and procedures, see page 31 under Academic Regulations.)

With the goal of helping students to fully develop and achieve their educational goals, professional staff members are trained to support students by:

- providing a campus climate in student residence and campus affairs that is conducive to academic achievement;
- 2. providing services which will assist in the self-development of all students and promote the understanding of their own purposes for being in college;
- providing, through student government, student organizations and other activities, both an opportunity to practice democratic living, with both rights and responsibilities, and a chance to learn to work effectively and cooperatively with others;
- 4. providing an opportunity for those individuals who are

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capable of profiting from higher education by providing financial assistance, when necessary, in the form of scholarships, grants, loans and employment;

- 5. helping each student develop a sense of individual responsibility and self-discipline;
- interpreting college objectives, policies and rules to students and communicate student attitudes, opinions and activities to the faculty, administration and general public;
- providing student health services that meet the emergency and temporary medical needs of all students;
- 8. providing an opportunity for students to gain information about the world of work and job opportunities; and
- providing assistance and direction in matching student qualifications with job requirements.

College Orientation

Billingsly Student Center 211, 625-9542

To assist all new students in the transition to college life, Southern has designed an orientation program to help them become acquainted with college personnel, services, policies and procedures. The program operates in small group settings with peer leaders to provide open discussion of all factors that contribute to a successful college career. The eight-week course is offered at the beginning of fall and the spring semesters and includes the assignment of an academic adviser for each student. Members of the Student Services staff serve as academic advisers for students who have not declared an academic major. Special orientation courses are available for transfer and non-traditional students. The Director of College Orientation coordinates a nine-day summer orientation program as well as the fall and spring programs. The Orientation Office is located in the Central Student Services Office, 211 Billingsly Student Center.

Financial Aid

Hearnes Hall 114, 625-9325

Missouri Southern participates in a variety of aid programs to assist qualified students who would otherwise not be able to attend college. These funds--from private, institutional, state and federal sources--are coordinated to meet the individual student's need. There are programs based on various criteria such as financial need, performing ability and academic excellence. Each program has requirements for maintaining the award and students must meet satisfactory academic progress guidelines for continued assistance. Foreign students are required to present a financial statement certifying they have sufficient funds to pay for all educational expenses. Information in this catalog regarding financial aid is subject to change without notice. Missouri Southern reserves the right to adjust a student's financial aid package to reflect a true change in the student's financial situation. Financial aid awards are subject to changes in institutional policy and State and Federal regulations.

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Scholarships	Who Is Eligible	How Much	How to Apply
Honors Program	Students who score 28 or above on the Placement Test or with a 3.5 GPA in high school course work	Full tuition and fees for ACT scores that fall within the 99th percentile	Send test scores to Director of Honors Program and request application
President's Scholarships*	First and second ranking stu- dents in each accredited high school in the College's service area	1991-92 \$1000.00	Upon recommendations of high school counselor, scholarship is validated when recipient enrolls as a freshman
Regents' Scholarships*	Awarded directly to high school graduates who score 25 composite score or higher on the ACT and have a 3.0 high school GPA	1991-92 \$665.00	Have ACT Placement Test scores sent to Counseling Of- fice
Deans' Scholarships*	High school graduates who rank in the upper 20% of their graduating class and have a composite ACT of 21 or above. The Deans' Scholarship can not be used in conjunction with the President's, Regents' or Honors Program Scholarships.	1991-92 \$500.00	Contact your high school counselor
Junior College Transfer Scholarships*	Junior college graduates with a 3.0 GPA and students who have completed 55 hours or more with a 3.0 GPA at a junior college.	1991-92 \$665.00	Complete a Junior College Transfer Application
Patron's Scholarships	Criteria established by individ- ual donors	Awards range from \$50 to \$1500 as determined by indi- vidual donors	Applications available in Financial Aid Office; application deadline April 1
Performing Aid Awards	Students who have demonstrated success or high potential in forensics, journalism, music, mathematics, theatre, baseball, football, golf, softball, volleyball, basketball, soccer, tennis, etc.	Awards range from \$50 to full scholarship consisting of tuition, fees, room and board	Apply directly to the director or sponsor of particular activity
ROTC Scholarships	Outstanding students en- rolled in military science	One-year, two-year and three- year scholarships for tuition, lab fees, on-campus educa- tional fees and incidentals, plus up to \$1,000 tax-free sub- sistence allowance each school year	Applications available from the military science department

*Students receiving President's, Regents', Deans' and Junior College Transfer scholarships must enroll in and complete at least 12 hours each semester with a 2.5 GPA the first semester and a 3.0 GPA the following semesters.

Grants	Who Is Eligible	How Much	How to Apply
Pell Grant	Federal Aid program based on financial need. All students should apply	Grants range from \$200 to \$2300 depending on where the student lives and educa- tional costs	Complete an approved need analysis, MSSC prefers CSX's AFSSA Application, priority date February 15.
Missouri Student Grant	State funded program for Missouri residents; based on financial need	Maximum grant not to exceed one-half the cost of tuition and fees	Complete an approved need analysis. Deadline April 30
Supplemental Educational Opportunity Grants (SEOG)	Students with exceptional fi- nancial need	Grants range from \$100 to \$4000 per academic year	Complete an approved need analysis. MSSC prefers CSX's AFSSA Application, priority date February 15
COPHE Teachers Scholarship	Graduating H.S. seniors	\$1000	COPHE Scholarship Application
Missouri Teacher Education Scholarship	Upper 15% of graduating class or score in the upper 15% on recognized exam	\$2000 per year	Missouri Teacher Education Scholarship application avail- able in the Financial Aid Of- fice
Robert C. Byrd's Honors Scholarship	Graduating H.S. seniors	\$1500	Byrd Scholarship Application
Missouri Higher Education Academic Scholarship	Graduating H.S. seniors	\$2000	Missouri Higher Education Academic Scholarship Application
Employment Programs	Who is Eligible	How Much	How to Apply
Work Study Program	Federally funded program providing on-campus employment for students with financial need	Minimum wage, weekly hours based on need	Complete an approved need analysis. MSSC prefers CSX's AFSSA Application, priority date February 15
Student Help Program	On-campus employment for students who are qualified to fill job openings	Minimum wage, weekly hours depend on operational need	Apply to Student Employment Office or to individual depart- ments on campus
Job Location & Development	All students unless conflicting other aid	Minimum wage and up	Fill out MSSC Employment Application, make an appoint- ment

Loans	Who Is Eligible	How Much	How to Apply
Perkins Loan	All students who demonstrate financial need and have com- pleted appropriate documen- tation as required by Federal regulations	Need to \$4500 first 2 years; 4 year total to \$9000.	Complete an approved need analysis, MSSC prefers CSX's AFSSA Application, priority date February 15
Stafford Loans	All students who demonstrate financial need and have com- pleted appropriate documen- tation as required by Federal regulations	Need to \$2625 per year for freshman and sophomore; \$4000 per year for junior and senior. Total \$17,250.	Application and special instructions available in Financial Aid Office. Complete an approved need analysis, MSSC prefers CSX's AFSSA Application, priority date February 15.
PLUS/SLS	Regular student must apply for Federal Aid programs	\$4000 per year	Applications and special instructions available in Financial Aid Office. Complete an approved need analysis, MSSC prefers CSX's AFSSA application, priority date February 15.
Other Assistance	Who Is Eligible	How Much	How to Apply
Academic Management Service	All students are eligible for this monthly budget plan which allows payment of fees over a 10-month period and provides insurance coverage for the person making the payments.	Ranges from \$25 to full cost of tuition, fees, room and board; or the difference between total direct educational costs and other financial aid awarded	Applications available in the Financial Aid Office
Veterans' Administration Benefits	Veterans eligibility is determined by when the veteran entered military service, length of duty and several other factors	Amount varies depending on chapter and enrollment status	Contact: Veterans' Administra- tion Officer, Veterans' repre- sentative on campus or Veterans' Administration Re- gional Office
Bureau of Indian Affairs	Students who can prove they are at least one-fourth Indian blood	Awards range from partial tuition to full tuition and fees	Contact: Bureau of Indian Affairs, Higher Education Office, Federal Building Room 300, Muskogee, OK 74001
Vocational Rehabilitation	Students with any disability	Awards range from \$25 to full tuition, fees, room and board	Contact: Vocation Rehabilitation Office, 1609 East 20th, Joplin, MO 64801

All financial assistance is subject to change without notice to meet federal regulations and availability of funds.

How to Apply for Financial Aid

- All applicants must complete an approved need analysis application. MSSC prefers CSX's AFSSA form. Application deadline is April 30; however, awards will be made until all funds are expended. This application will generate a Pell Grant, Missouri Grant and a financial aid report.
- Applicants should bring or mail all copies of the Pell Grant Student Aid Report to the Financial Aid Office as soon as they receive the document.
- Applicants selected for verification must bring or mail a copy of their own and if under 24, their parent's 1040 Income Tax Form to the Financial Aid Office. These signed documents must be on file before any award will be processed.
- 4. Applicants must indicate on their need analysis the type of assistance for which they wish to apply. In addition, applicants for Stafford, PLUS and SLS loans must complete a separate loan application.
- Applicants for Patron Scholarships must complete a scholarship application and return it to the Financial Aid Office prior to April 1.
- Transfer students must request a financial aid transcript for each college previously attended.
- 7. Applicant for performing awards should contact the director of the program in which they wish to participate.
- Applicants for special programs should contact the Financial Aid Office for instructions.

Policies and Regulations

Academic Standards: The student's academic progress will be determined in May of each year. However, if minimum standards of hours or grade point average are not met in the fall semester, the student automatically will be placed on financial probation for the spring semester. If satisfactory progress is made during the fall, but not during the spring semester, the student will be allowed one semester on probation to make up all deficiencies. After the probationary semester, grades will be checked and the number of courses will be verified to see if a minimum standard has been completed. If satisfactory progress is not maintained, the student will be placed on financial suspension until the required GPA is reached or course work is completed.

All financial aid recipients must meet the appropriate GPA as published in the College Catalog, (page 40) Standards of Progress Toward Graduation. After the second year, federal regulations require the student to have a cumulative "C" average or 2.0 GPA or, in cases where a higher GPA is required for graduation, the student must meet that higher GPA. Students receiving financial aid must meet federal guidelines. If the GPA falls below the minimum standard of progress, the student will be placed on probation.

The maximum time in which a student is eligible to receive financial assistance is as follows:

Maximum Semesters of Aid Eligibility

Degree	Full-Time	3/4-Time	Half-Time
Bachelor	12	18	24
Associate	6	9	12
Certificate	3	5	6

Note: It is automatically assumed that students who do not indicate a degree program are pursuing an baccalaureate degree. All financial aid recipients must complete the appropriate number of hours depending on the categories in which they enroll and receive payment.

All financial aid recipients must complete the appropriate number of hours depending on the categories in which they enroll and receive payment.

Category Completed	Hours per Semester	Hours per
Full-time	12 or more	21 hours per year
3/4-time	9 to 11	15 hours per year
Half-time	6 to 8	9 hours per year

Note: In calculating the minimum hours completed per year, the following will not be counted: incompletes, repetitions, noncredit remedial courses, audited courses and withdrawals. However, if withdrawal from a class results in a change in categories, the originally required payment hours must be completed. If the minimum required hours are not completed, the student will be placed on probation. Students who fail to complete the minimum required hours during the academic year (fall and spring) or whose grades are below the minimum, may make up their deficiencies in summer school.





All aid will terminate immediately under the following situations:

- 1. withdrawal from all classes,
- failure to meet special requirements of academic progress imposed by the Financial Aid Committee or
- default on any federally funded student loan or overpayment of any Title IV funds.

Appeal Procedures

Students may appeal the suspension of aid to the Director of Financial Aid. After reviewing the file, the Director may reinstate the aid if a course failure was due to medical circumstances, change of degree, change of major or circumstances beyond control.

If the Director denies the appeal, an appeal may be made to the Financial Aid Committee. The student must submit in writing an explanation of any special circumstances in addition to the ones listed that the committee should consider in determining whether any aid should be reinstated. After reviewing student records and written comments, the committee will give written notification of its decision. The notification will state whether or not the aid should be continued and the requirements for reinstatement. The decision of the Financial Aid Committee is final.

It is assumed that transfer students are making satisfactory academic progress when they enroll at Missouri Southern. They will be evaluated at the end of their first full academic year.

Students may continue to receive assistance under the following mitigating circumstances: meeting standards or on probation under old policy, medical problems, change of degree objective, change of major or other extenuating circumstances. The Director will determine the validity of these circumstances, provided there is appropriate documentation. Under these circumstances, students need not go through the appeal process.

For further information concerning academic progress, see the Financial Aid Office Procedure Manual in the Financial Aid Office.

Other Duties and Responsibilities of Financial Aid Recipients

Students must report the following changes to the Financial Aid Office:

- 1. withdrawal from school,
- 2. a significant change in income,
- 3. added or dropped classes during the semester,
- 4. a name change,
- 5. change of address or change of parents' address,
- 6. transfer to another college.

Work Study recipients must contact the Student Employment Office for job placement within five days of the beginning of the semester.

Missouri Southern operates on a financial aid data base system which processes applications and awards electronically. It is to the applicant's advantage to use forms and lenders which are capable of processing data by teletransmission. The electronic system requires student signatures on student aid reports, documentation, award letters, loan applications and promissory notes before funds can be processed.

Financial aid funds will be credited to your account and if there is a balance, a check will be prepared and mailed to you; therefore, a correct address is very important. Checks are written every two weeks except for CWSP and Stafford loans. CWSP, Stafford, SLS and miscellaneous checks must be picked up in person by presenting proper identification.

Veterans must sign up for veterans' benefits at the beginning of each semester.

Counseling Services

Hearnes Hall 114H, 625-9324

Missouri Southern students may receive individual personal counseling and professional testing and assessment in the Counseling Center located in Suite 114 of Hearnes Hall. Professional staff members offer individual counseling for academic or personal concerns, a variety of tests and inventories and referral services.

Testing Services

Missouri Southern is a national testing center for the following examinations:

- 1. ACT (Placement test for college entrance)
- 2. NTE (National Teachers Exam)
- 3. EESN (Entrance Examination for Schools of Nursing)
- 4. DHAT (Dental Hygiene Aptitude Test)
- 5. MAT (Miller's Analogy Test for graduate school)
- 6. CLEP (College Level Examinations Program)

The Counseling Center also gives the GED (General Education Development High School Equivalency Test) as a service to the people of Southwest Missouri who were unable to complete their high school education. The person making an acceptable score on

the GED test will receive a high school equivalency certificate from the Missouri State Department of Education. Applications for GED testing are available from the Counseling Center.

All students whose native language is not English, who wish to transfer with 24 hours or more and do not have TOEFL score of 535, will take, by appointment, the Michigan Test of English Language Proficiency.

The CLEP (College Level Examination Program) is administered on Thursday and Friday weekly. The student must contact the Counseling Center to register prior to the testing time/day. This program is designed to allow students to receive, upon attaining a passing grade, proficiency credit for general education and other freshman/sophomore programs. The Counseling Center also provides proctors and a testing room for students taking correspondence courses from other accredited institutions. Appointments must be made prior to taking the test. A fee will be charged for each test administered.

Counselors for Special Students

Certified counselors and advisers are available for international students, veterans and handicapped students. The international student adviser has information and forms required by the U.S. Office of Immigration and Naturalization concerning immigration matters. Students should contact the international student adviser regarding visa renewal, transferring to other schools, etc.

The veterans' counselor is the certifying official for the College and the contact person for veterans' educational benefits. Veterans' enrollment must be certified each semester and the veterans' counselor must be informed of any changes of enrollment during the semester.

A designated counselor will assist physically handicapped students with early enrollment, assistance in overcoming barrier problems, Readers for the Blind Program and other matters of concern to these students.

Academic/Career Planning

Students who have not declared an academic major or who are uncertain of their major may discuss career opportunities with a professional counselor. Interest, ability and personality inventories are used by the counseling staff to assist in career decision making. A library of career materials is also available to assist students in making academic/career decisions.

The DISCOVER program, a computer based career guidance system, is also available and designed to assist students in clarifying values, assessing competencies and interests, making decisions, securing information on occupations and selecting appropriate strategies to reach career plans.

Non-Traditional Student Program

Students who have been out of school for several years often have unique concerns about returning to college. Workshops to ease the transition to college are offered periodically. A "Return to Learn" course is offered each semester as the orientation course

for returning adult students. SAGE, an organization for adult students, assists the expanding adult segment of the student population. The office of the counselor for non-traditional students is located in the Counseling Center, 114 Hearnes Hall.

Student Activities

Billingsly Student Center 101, 625-9320

The Coordinator of Student Activities works closely with other Student Services personnel and the Campus Activities Board in providing a variety of services for students, faculty and staff at Missouri Southern.

Campus activities are scheduled in the Student Activities Office and reservations for space and food service in Billingsly Student Center are made in this office. The office also handles ticket sales for off-campus activities and entertainment.

Campus Activities Board (CAB)

The Campus Activities Board, a student organization supported by student activity fees, has the responsibility for programming social, educational and recreational activities for the entire college community. Students may volunteer to serve on one of the eight CAB committees: concerts, cultural affairs, coffeehouse, dances, movies, speakers, special events and tour and travel. Interested students may apply in the CAB office on the lower level of Billingsly Student Center.

Student Government

The Student Senate serves as the governing body for students and acts as a liaison between the faculty and the student body. The responsibility for student government rests not only with the student officers, boards and committees but also with each member of the student body. The Student Senate is made up of nine senators from each class, who are elected in the fall, and the executive officers, who are elected in the spring. The Student Senate is funded from student activity fees.



Career Planning and Placement

Billingsly Student Center 207, 625-9343

The Career Planning and Placement Office, located in Room 207 of Billingsly Student Center, provides many services to Missouri Southern students and graduates.

Prospective graduates and alumni may enlist the staff's help in finding full-time employment. Representatives of business, industry, government and educational institutions are invited to the campus to interview students for possible job openings. Students are encouraged to visit the Career Planning and Placement Office regularly and to take advantage of on-campus interviews, vacancy listings, career fairs, workshops/seminars and assistance in developing interviewing skills and preparing resumes.

The Career Planning and Placement Office also maintains a career library which contains information on major businesses, industries and educational institutions. Information about graduate schools is available in this library along with information to aid students in choosing a career.

Residence Halls

Billingsly Student Center 212, 625-9522

The Missouri Southern on-campus residence requirement is as follows: "All freshmen and sophomores are required to live in the Missouri Southern residence halls to the extent space is available, unless they are married, live with their parents, live with a relative or are excused by the Director of Student Life."

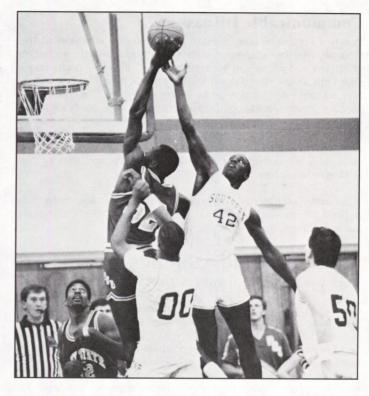
The College provides residence hall accommodations and meals for over 600 full-time students. Concerned with the total needs of the students, the College maintains a safe and comfortable place to live and an adequate physical environment as well as opportunities for learning. The atmosphere in the residence halls contributes significantly to the students' personal growth and maturity.

The residence halls are staffed by two full-time professional head residents and 19 paraprofessional staff assistants. The governing body for resident students is the Residence Hall Association (RHA) which provides educational, social and athletic programs for the students and acts as a liaison between resident students and the College administration.

Residence hall rooms are fully furnished except for linens and personal items. Cable TV rooms, study lounges, recreational areas, personal computers, vending machines, coin-operated laundry facilities and pay telephones are in the residence halls. Private telephones may be installed in individual rooms with the occupants responsible for installation charges and monthly billings.

Resident students also are entitled to food service. Twenty meals a week are served in the Student Center Cafeteria.

To reserve a room in a college residence hall, a prospective student should request an Application-Contract for Room and Board Accommodations from the Missouri Southern Housing



Office. The completed Application-Contract should be returned to this office with a \$75 security deposit. The deposit is retained by the College as long as the student is in residence and refunded upon termination of the contract if all terms of the contract are fulfilled.

This contract, which is a combined contract for room and meals, is effective for the entire academic year (fall and spring semesters) or for the remaining portion of the academic year if entered into after the beginning of the fall semester. Detailed terms will be found on the contract form.

The College is not responsible for the loss of or damage to, any personal property of students.

For detailed rules and regulations governing residence hall living at Missouri Southern, contact the Housing Office, Room 211, Billingsly Student Center.

Student Health Services

Kuhn Hall 303, 625-9323

The faculty and staff of Missouri Southern are interested in students' physical and emotional well-being as well as their intellectual and cultural development. The Student Health Center, staffed with a full-time registered nurse and a physician on call, is open Monday through Friday from 8 a.m. to 4 p.m. All currently enrolled students are eligible for treatment at the center. Most services are free; however, students are expected to pay for laboratory, x-ray, emergency room, hospital services, prescriptions and ambulance service.

Communicable Diseases

When a communicable disease comes to the attention of the College, whether student, faculty or staff member, the College's physician and nurse will assume responsibility for conducting a thorough review based upon the best medical and legal information available. Students must be protected against the diseases of measles, mumps and rubella. Students who have not been properly immunized or who have not had these diseases may be banned from College property in the event of an outbreak on campus. Any actions taken will respect the confidentiality of the individual as well as the individual's welfare and that of the College community.

A voluntary accident and sickness insurance plan for students is available from the Student Services Office, Room 211, Billingsly Student Center.

Intercollegiate Athletics

Young Gymnasium 122 (men), 625-9317/215 (women), 625-9316

Missouri Southern's athletic program is based on the concept that intercollegiate athletics are an integral part of the total educational process, subject to the same aims, policies and objectives as other departments. The College's sound athletic program provides the benefits of athletic participation while assuring that athletes fulfill their responsibility as students. Though the primary concern is that the athletic program further the educational process, the College must be aware of the public attention that focuses on the institution through intercollegiate sports. While the public attention and the entertainment aspects of intercollegiate sports must be recognized, they are secondary in importance to the role of athletics in the total educational program.

The staff of the athletic department provides quality programs for students who express an interest in various sports. Male and female students have similar opportunities to participate in athletic activities with appropriate support. The College is a member of the Missouri Intercollegiate Athletic Association and the National Collegiate Athletic Association, Division II. College teams compete on the intercollegiate level in baseball, basketball, football, golf, soccer, softball, tennis, volleyball, cross country and track.

Student Conduct

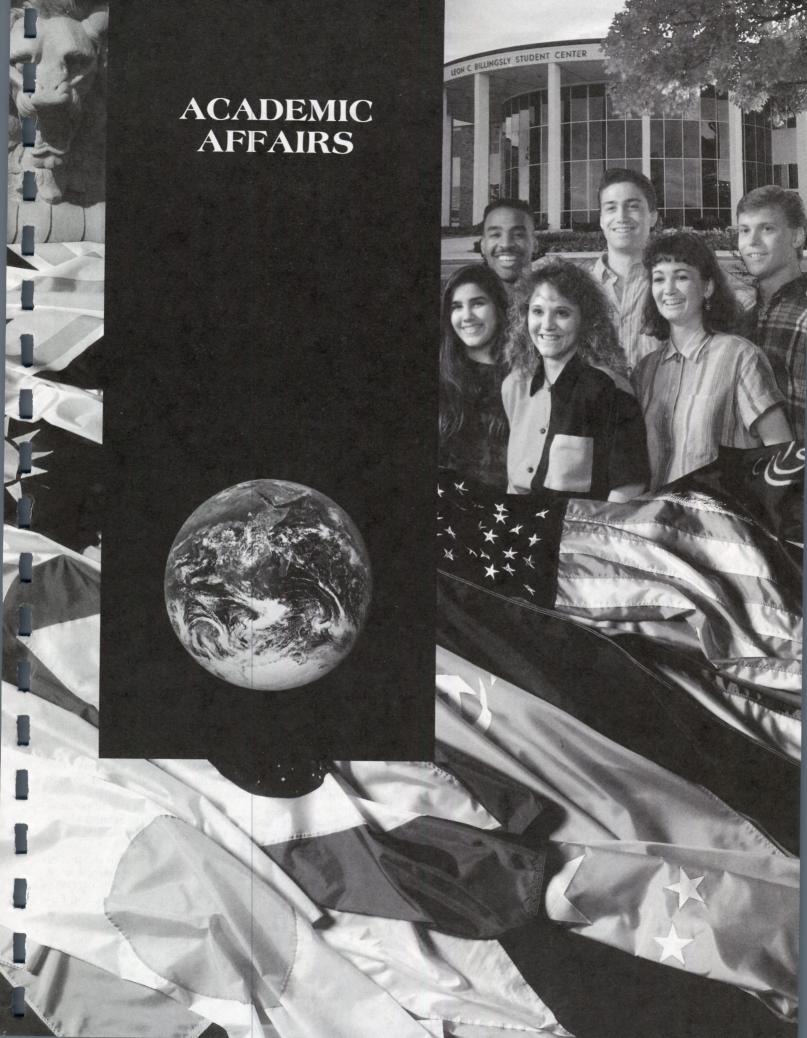
In order to provide the best possible environment for personal and intellectual growth, the College has established regulations to guide student conduct. A summary of these rules and regulations is found in the Student Handbook which may be obtained from the Student Services Central Office, Billingsly Student Center 211. Additional guidelines to insure the safety and comfort of resident students are in the Residence Hall Handbook which is available from the Director of Residential Life.

Substance Abuse Policy: Students are prohibited from using alcoholic beverages and illegal drugs at Missouri Southern. Irresponsible usage of alcohol or other usage off campus resulting in disorderly conduct on campus is also not acceptable. Any student of Missouri Southern found to have manufactured, dispensed, possessed or used a controlled substance in violation of the Substance Abuse Policy of this College will be subject to discipline in accordance with College policy and reported to local, state or federal law enforcement authorities for criminal prosecution. Criminal prosecution for these acts could lead to a conviction and such a conviction could result in a sentence imposing a monetary fine, imprisonment in a state or federal penitentiary or both.

Student Identification Cards

The student identification card is produced by the College and issued to all full-time students as a means of personal identification. The College reserves the right to request a student to produce the I.D. card at any time deemed necessary. The student I.D. is a service to students currently enrolled who wish to use college facilities and services. The first student I.D. is free; replacement cost for lost cards is \$5.00.





Academic Affairs

Vice President for Academic Affairs

Robert C. Brown Hearnes Hall 200, 625-9394

Staff Ray A. Malzahn, Dean, School of Arts and Sciences; James M. Gray, Dean, School of Business; Edward P. Merryman, Dean, School of Education and Psychology; James K. Maupin, Dean, School of Technology; Delores A. Honey, Assistant to the Vice President; R. Jerry Williams, Director of Continuing Education; Charles Kemp, Head Librarian; Eugene C. Mouser, Registrar; Betty R. Israel, Director of the Assessment Center; and Myrna Dolence, Coordinator of the Learning Center.

The Office of the Vice President for Academic Affairs is responsible for the administration of the instructional program both on and off campus. The Learning Resources Center, the Honors Program, the Continuing Education Program, the Writing Program, the Assessment Program and all academic units are under its direction.

Spiva Library

Spiva Library 205, 625-9703 Head Librarian: Charles Kemp

Librarians: Robert Black, Mary Lou Dove, Susan Huston, Charles

Nodler, Gaye Pate and Edward Wuch

The Library consists of two units:

1. George A. Spiva Library

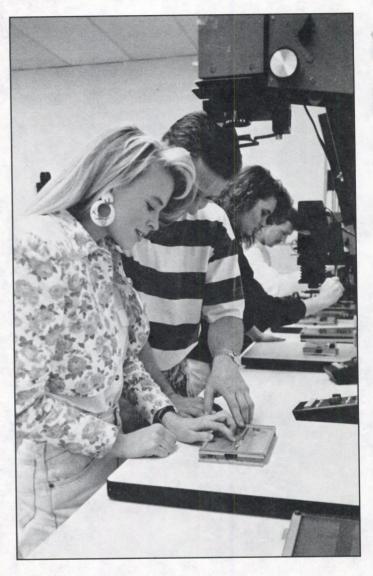
2. The Audio-Visual Center

The Library

The Spiva Library, the major information resource on campus, has a collection that includes over 192,000 volumes; 1,300 periodical titles; a selective state and federal government documents depository; a law collection and over 600,000 items on microfiche or microfilm. Additional collections in the archival area include the papers of Congressman Gene Taylor, maps of the tri-state mining area and the papers of Arrell Gibson, a noted western historian. The collections are housed in a building that was constructed in 1967. There have been two renovations of the building since then, with the latest being in 1987. The staff is composed of seven librarians, 12 support staff members and part-time student staff members.

The teaching function of the library is considered of great importance as befits a college which prizes excellence and the intellectual development of its students. Tours of the library are given and every effort is made to insure that students learn how to conduct research in the library effectively. Well-trained librarians are available to teach patrons how to use information resources and to assist patrons with their research and information needs.

Modern technology is used heavily in Spiva Library. Interlibrary loan requests are sent and received through a nationwide computer network of libraries. Locations of requested materials can be determined in minutes through the OCLC Network which has a database of over 21 million records online in over 11,000 member libraries. A telefacsimile machine service is used to rapidly send and receive copies of periodical articles.



All functions of the library are completely automated. The collection of materials can be accessed from terminal locations in the library, in faculty offices and from home computers equipped with modems through the LION on-line public access catalog. The LION, which is an acronym for Library Information On-Line, has replaced the wooden card catalogs full of 3 x 5 cards. The library also circulates, catalogs and orders books using the automation system. The system used is a state-of-the-art integrated library automation package developed and supported by NOTIS, INC.

The compact disk technology has made retrieval of subject matter in periodicals so easy that it has become the preferred method of researching periodical literature for many students. ABI-INFORM, ERIC, Newspaper Abstracts, MLA Bibliography, Medline and Cumulative Index to Nursing and Allied Health Literature are some of the major periodical indexes and abstracts in this format. Other major indexes/abstracts available in print format are Biological Abstracts, Psychological Abstracts, Reader's Guide to Periodical

Academic Affairs

Literature, Business Periodicals Index, Sociological Abstracts and Chemical Abstracts. In addition, the reference staff can do on-line searches for library patrons through DIALOG or BRS which have several hundred databases available for searching. With all of these information sources available, students at Missouri Southern never lack information for research papers.

The new methods of information retrieval make library research easier than it has ever been. When the new technology is combined with a library staff whose major goal is excellent library service, the net result for Missouri Southern students is a pleasant and productive experience in the Spiva Library.

The Audio-Visual Center

Located on the third floor, the AVC is the audio-visual materials component of the Spiva Library. The materials include curriculum textbooks, children and juvenile books, video and audio tape materials, films, slides, kits and miscellaneous types of instructional materials. The materials in the AVC are cataloged and made available through the LION. The staff provides limited production services such as making overhead transparencies, laminating materials and copying audio-tapes. The Center includes the appropriate playback equipment for the materials. Both IBM and Apple microcomputers are furnished for student use. Each school and department has equipment, so only a limited number of equipment items such as projectors, video cassette recorders and tape recorders are available for scheduling through the Audio-Visual Center.

The Honors Program

Hearnes Hall 115, 625-9686 Delores Honey, Chairperson, Honors Committee David L. Ackiss, Director Patricia P. Kluthe, Assistant Director

The Honors Program at Missouri Southern is intended to encourage academic excellence by providing special opportunities and challenges for exceptional students. Features of the program are as follows:

- 1. All full-time students admitted to the Honors Program will receive a four-year renewable scholarship that covers tuition, book rental fees and student activity fees for fall, spring and summer semesters. Additional scholarship funds to cover room and board are available to National Merit Scholarship finalists and semi-finalists and to those who have a cumulative score on the ACT in the 98th or 99th percentile.
- 2. Honors sections of selected Core Curriculum courses are available to Honors Students.
- Other special features include optional accelerated graduation (a three-year program), honors residence hall space, individually enhanced classes tailored to student potential, individualized advising, colloquia, guest speakers, opportunities for sponsored research, exploration of professional and graduate study opportunities and senior research projects.
- Recognition is given to Honors Program members who successfully complete the program at Honors Convocation, at graduation and by a notation on their permanent records.

Who is Eligible?

All students who wish to participate in the Honors Program must be admitted to Missouri Southern State College. Incoming freshmen with a composite score on the Enhanced ACT of 28 or above or with a grade point average of 3.5 or above (on a 4.0 scale) in high school course work, are invited to apply for admission to the program. Two letters of recommendation, from the student's high school principal and from a high school teacher, an essay and an interview are required of applicants.

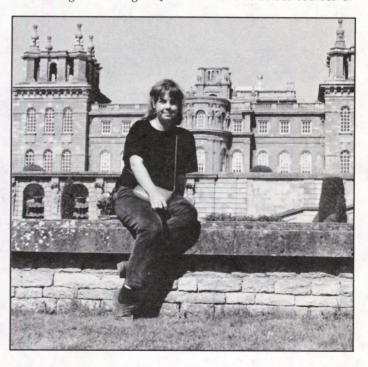
Students who have already completed no more than 30 hours of course work with a grade point average of 3.5 or above at Southern or any other accredited college or university, also are invited to apply. For application material and further information, contact: Director, Honors Program, Missouri Southern State College, Joplin, MO 64801-1595. Application deadline: April 1.

Summer Study at Oxford

To live and study at historic Christ Church is considered by many to be an experience of a lifetime. Missouri Southern offers an elective summer study program with Oxford, the world's foremost university. This program is in cooperation with Florida State University.

Students will participate in small seminar groups led by Oxford University tutors and live in an atmosphere of Oxford College life as it has survived over the past 700 years. In addition, students will be able to meet with tutors and visiting scholars in an informal atmosphere.

A selected group of students have the opportunity to participate based on their advanced academic standing for hours accumulated and grade average. Qualified students select courses of-



Academic Affairs

fered in three week sessions on various subjects. Missouri Southern grants partial scholarships to selected students each year. Honors Program students are given priority consideration in the selection process. Faculty members are also chosen to take part in the program. There is time for students to enjoy the rich heritage of England through formal tours or individual excursions. Even though it is brief, a great opportunity awaits those selected to be a member of this distinguished community of scholars and a participant in the Oxford experience.

The Division of Continuing Education

Hearnes Hall 103, 625-9384 R. Jerry Williams, Director

The Division of Continuing Education embraces the life-long learning concept by providing credit and non-credit courses that supplement the college curriculum. Over 34,000 students have enjoyed learning opportunities in wide range of academic and non-academic subjects.

The Division is also responsible for distance education programs offering courses off the main campus. Delivery systems include customized training provided at business and industrial sites, video tape correspondence courses and courses offered through the college television broadcast station and microwave system.

Numerous seminars and workshops are also offered through the Division of Continuing Education for professional continuing education credit and personal self enrichment. Subjects vary from art workshops to ocular pathology.

Information concerning various programs may be obtained by contacting the Division of Continuing Education located in Hearnes Hall, Room 103.

The Learning Center

Spiva Library 327, 625-9373 Myrna Dolence, Coordinator

Staff: James Brown, Jan Dursky, Eillen Godsey

The Learning Center offers academic assistance to all students attending Missouri Southern. The Center provides a wide range of services:

- 1. computer lab for all students;
- 2. computer assisted programs in reading and writing;
- 3. supplemental instruction in designated classes;
- 4. peer and professional tutoring;
- 5. counseling.

Required classes in composition and reading, designed to meet the needs of underprepared students, are offered through the Center. Additional classes in reading and study skills are available.

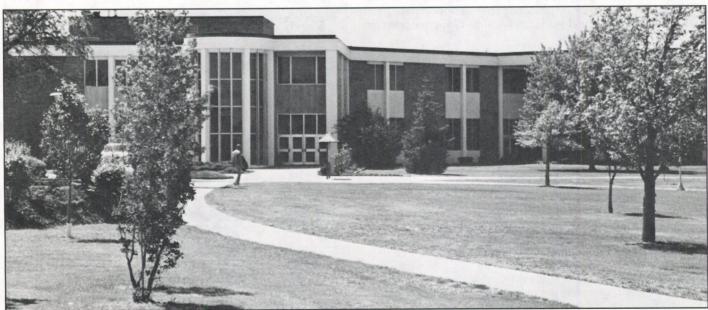
The Assessment Center

Hearnes Hall 115, 625-9696 Betty R. Israel, Director

Missouri Southern is committed to the measuring of outcomes of curricular programs. Both the Core Curriculum and the major will be assessed each year. The relative strength of programs can be judged and actions formulated to ensure that all programs provide the best possible opportunities to students. Student opinionnaires will be given every two years.

The Writing Program

Each student is required to complete five writing intensive courses as a part of the baccalaureate degree. The director and a faculty committee advises the Vice President for Academic Affairs on the development and supervision of the program.



Academic Regulations

Missouri Southern faculty want their students to succeed, so students need to prepare themselves academically for college classes. The following high school studies are recommended for college bound students. Experience has shown that students who have completed these courses are most likely to succeed in college:

- Language Arts: 4 years of English which must include 2 years of composition plus 1 year selected from speech, journalism, literature or foreign language. Total -- 4 Units
- 2. Mathematics: 1 year of algebra and 2 years selected from advanced algebra, geometry, trigonometry, calculus or computer science. Total -- 3 Units
- Sciences: such as biology, physics, chemistry, earth sciences and life sciences. (General science does not count.)
 Total -- 3 Units
- Social Sciences: such as American government, American history, world history, psychology, sociology, economics or anthropology. Total -- 2 Units
- Three additional units selected from: foreign language, mathematics, physical or biological science or social science. Total -- 3 Units

Admissions

Hearnes Hall-109, 625-9378

Regular Admission

Students who have participated in a formal educational program within the past five years (high school or college) will be admitted if:

- They rank in the upper two-thirds of their high school graduating class; or
- 2. They score above the 33rd percentile on the ACT national admissions test, or composite score of 17 (1991); or
- The sum of the student's high school class percentile rank and the ACT percentile is 60 or greater.

Students who do not meet the standards quoted above may seek a waiver of this policy through the Admissions Office Appeal Committee.

Admissions requirements are subject to change without notice.

The Admissions Office Appeal Committee: The committee will act favorably to the appeal only if they determine the student has the ability to succeed and is appropriately motivated. Specific courses and/or a reduced load may be required. The committee may make one of three decisions: grant regular admission, grant special (probationary) admission; deny admission.

Students With Previous College Experience

Former MSSC Students Former Missouri Southern State College, Jasper County Junior College and Joplin Junior College students must inform the Office of Admissions of their intention to return.

When necessary, these students will be required to update their credentials.

Transfer Students Students transferring from another collegiate institution must present credentials listed on page 32, plus: (a) have official transcripts sent to the Director of Admissions by the Registrar from each collegiate institution attended, (b) be eligible to return to their last institution, (c) pay a \$10 non-refundable application fee. Individuals transferring to Southern who have not taken English or math or are seeking a degree in education must file ACT scores. Transfer students must adhere to the standards for progress toward graduation

Transfer students must also take the senior year or 30 out of the final 36 hours in residence at Missouri Southern.

Transient Students Students in good standing at other colleges and universities may wish to enroll at Missouri Southern for the purpose of transferring back to their institutions the credit earned. Admission requires completion of the application form, payment of the \$10 non-refundable application fee and a statement of good standing from the authorized college official or Registrar of the student's home college or university.

Non-Traditional Students Students who have not participated in



a formal educational program (high school or college) within the last five years may apply to the Admissions Office for a one-year waiver of academic admission requirements. Following that year, the student must supply regular credentials to the Admissions Office.

Special Program Admissions

International Students International students not citizens of the United States who wish to apply for admission should write the Director of Admissions for the proper application forms and instructions. In addition to the admission credentials required of all students (this page), international students must satisfy these concerns: (a) academic competency, (b) ability to read and speak the English language adequately for college level study and (c) ability to finance the cost of education at Missouri Southern. All applicants from non-English speaking nations must score in the 75 percentile on the Michigan Test for English as a Foreign Language or score 535 on the TOEFL Test. Deadlines for completed application for admission are:

Freshman Fall Semester -- July 1 Spring Semester--November 1

Fall Semester--July 10 Spring Semester--January 2 Summer Semester--May 25 Summer Semester -April 1

Transfer

Students who are citizens of the United States and use English as a second language must pass English language competency. A TOEFL test score of 535 or a score in the 75 percentile on the Michigan Test is required of these students.

Credit-in-Escrow The credit-in-escrow program consists of college studies for outstanding high school students. They must have the approval and recommendation of the high school principal.

Special A person who has not graduated from high school or who is unable to present regular credentials, may be admitted on a probational basis. A student admitted under this regulation must



meet and maintain the academic standards for progress toward degree and may be required to fulfill other conditions stated at the time of enrollment. Upon successful completion of 59 semester hours of status of the student may be changed from "special" to "regular."

Continuing Education

Off-Campus Extension Regular college curriculum classes frequently are offered off campus. Students who enroll in these classes will generally be enrolled as a "temporary" student.

Off-Campus--Credit The College is committed to offering educational experiences necessary for community betterment. When possible, these classes are structured in such a manner as to allow college credit for the classes. Such students are enrolled as "temporary" students.

Off-Campus--Non-credit Often the College offers classes primarily for entertainment or avocation purposes. Students enrolling in these classes may do so with the permission of instructor.

Credentials Required for Admission

Regular Admission

- (1) High School Transcript An official transcript of high school credits must be filed showing that requirements for graduation have been met. A 6th, 7th or 8th semester rank in class must appear on the record. (The College will accept a satisfactory score on the General Educational Development (GED) test in lieu of a high school transcript.)
- (2) Placement Test Missouri Southern participates in the American College Testing Program. Scores from this test battery must be presented, within three years from the time the test was taken, as an admission credential. These tests are administered at nationally approved test centers five times a year. Missouri Southern is a test center.
- (3) Application The application for admission must be completed one week before the first day of enrollment (see college calendar). This includes all credentials required by the Admissions Office.
- (4) Application Fee A fee of \$10 must be included with the application for admission. (This fee is non-refundable and non-applicable to other college fees.)
- (5) Admission for Non-residents of Missouri A non-resident of Missouri is required to submit the same credentials as a resident.
- (6) Veterans Veterans who plan to attend under the G.I. Bill of Rights or Veteran's Orphans Act must present a certificate of eligibility at the time of enrollment.
- (7) Miscellaneous Requirements Additional credentials are required from students whose application credentials raise questions about their acceptability into the student body. While the College makes every effort to give each applicant an opportunity for a college education, it reserves the right to deny admission when the College's ability to meet the need of the student and/or the welfare of the student body are in question. Students who do not attend Missouri

Southern within one year after making application must submit new credentials when seeking admission again.

Special Admissions

The Health Sciences (nursing, dental hygiene and radiologic technology) Admission to Missouri Southern does not automatically confer admission to the nursing program, dental hygiene, radiologic technology, etc. In addition to meeting the admission requirements for the College, candidates who are interested in these health career programs are required to apply for admission to the department. Application forms may be obtained from the department of nursing office, Kuhn Hall; the dental hygiene department office, Ummel Technology Building; or the radiology department of St. John's Regional Medical Center. Applications should be submitted prior to March 1, preceding the fall semester in which the student wishes to enroll. Each application is reviewed by the Admissions Committee of the respective department. See nursing department (page 149), dental hygiene department (page 141) or radiologic technology (page 150) under affiliated programs for full information on admission and acceptance criteria.

Honors Program This program is intended to encourage academic excellence by providing special opportunities and challenges for exceptional students. Entrance into the program is by invitation. Interested students should ask the Director of Admissions for an Honors Application form.

Temporary In some instances, students may wish to enroll for a limited amount of credit without submitting transcripts of previous academic work. This may be done with the following contingencies: (1) no more than 15 semester hours of credit may be earned in this manner, (2) credit earned while enrolled as a temporary student may not be counted toward a degree or certificate unless the student changes status and (3) work beyond 15 semester hours will not be permitted until such time as all credentials are filed for regular admission.

Return to Learn Adult students can and do face problems and situations unique to their age group. These may include having families to support, needing child care, feeling alone in their age group and being uncertain of their abilities. This program is designed to prepare adult learners to continue their education with confidence. These students will be admitted under the "special" category listed above.

60 Plus This program is designed to serve interested individuals over the age of 59. Community residents may enroll in any course on a space-available basis without providing previous transcripts. Compliance with course prerequisites is necessary and is the students' responsibility. Enrollment takes place after regular registration. 60 Plus students may elect to receive grades and credit for their courses. If students enrolled via 60 Plus later desire to become regular students, they must make application to Missouri Southern for a future semester.

Placement, Examinations, Credits Resident Credits from Institutions of Equal Standing with Missouri Southern State College

Credits transferred from accredited colleges and universities will

be given full value in similar courses whenever possible. The amount of credit given for courses studied in other institutions may not exceed the amount given at Missouri Southern for the same length of time of instruction. Students may not transfer credits to satisfy more than one half of the major course requirements in a department unless the approval of the Vice President for Academic Affairs is obtained.

Transfer of Resident Credits from a Junior College

Credits will be accepted by transfer from a junior college to meet lower division (freshman and sophomore, 100-200 level course) requirements only. A total of 64 semester hours of credit earned at a junior college is the maximum that may be applied toward a baccalaureate degree. After 64 semester hours have been earned by the student, credit should not be taken at a junior college. A minimum of 64 semester hours must be earned in a senior college to obtain the baccalaureate degree from Missouri Southern.

Students who have completed a college transfer curriculum and have been awarded an associate of arts degree from an accredited public two year college in Missouri, prior to enrolling in Missouri Southern, are assumed to have fulfilled the lower division Core Curriculum requirements. Students will be directed immediately into their major area according to their preparation. Transfer students who have not completed the associate of arts as stated above will have their courses evaluated individually.

Transfer students must take a minimum of 30 of the last 36 semester hours for the baccalaureate degree in residence at Missouri Southern.

Advanced Standing Examination

A student whose travel, employment, extensive readings or other unique educational experiences appear to have provided proficiency in a course required in the curriculum equivalent to that ordinarily attained by those taking the course in regular class, may be granted permission to take an advanced standing examination. This examination may be a subject matter test of the College Level Examination Program (CLEP) or a comprehensive test designed by the department to cover the subject more fully than a regular final examination. In order to receive credit for a departmental examination, a student must have the following qualifications in addition to those listed above:

- (a) be enrolled in college at the time of the examination;
- (b) not have taken an examination over the course within the preceding six months;
- (c) not have credit in a more advanced course in the same field;
- (d) be working toward a degree at Missouri Southern State College;
- (e) have the approval of the head of the department in which the course is offered;
- (f) not use examination to replace a previously earned grade.

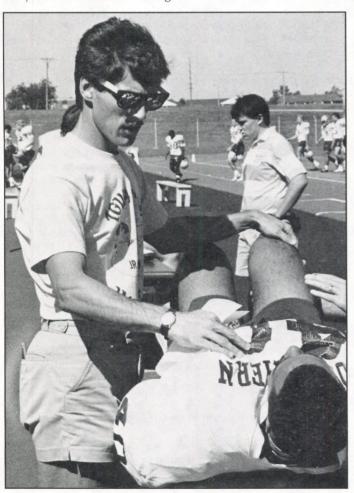
After a student has taken a departmental examination, the professor will transmit the grade to the Vice President for Academic Affairs Office. If performance is equated as a "C" grade, the Registrar will record the credit.

Credit-in-Escrow The credit-in-escrow program consists of college studies for outstanding high school students. They must have the approval and recommendation of the high school principal.

Special A person who has not graduated from high school or who is unable to present regular credentials, may be admitted on a probational basis. A student admitted under this regulation must meet and maintain the academic standards for progress toward degree and may be required to fulfill other conditions stated at the time of enrollment. Upon successful completion of 59 semester hours of status of the student may be changed from "special" to "regular."

International Baccalaureate

Missouri Southern will grant up to 30 semester hours or the equivalent of one full year of college study, to those who have completed study in the International Baccalaureate curriculum in high school. Missouri Southern will grant college credit and advanced placement for International Baccalaureate courses completed at the higher level with a score of four or greater. Students with such backgrounds should contact the Vice President for Academic Affairs through the Admissions Office for a detailed analysis of credits and standing.



Advance Placement Test (AP)

Missouri Southern participates in the Advanced Placement Program sponsored by the College Entrance Examination Board. Credits are granted for course areas in which a student has completed Advanced Placement Examinations with a score of 3, 4 or 5.

Validation Examinations

If Missouri Southern refuses to accept a student's earned credit in a course because of the method in which the course was taken or because the institution at which the course was taken was not accredited, the student may apply for a validation examination. In order to qualify for a validation examination a student must:

- (a) be enrolled in college at the time the examination is taken;
- (b) present the necessary evidence to prove that the course was taken:
- (c) get approval from the Registrar, the school dean and the head of the department in which the course is offered;
- (d) initiate the proceedings within the first eight weeks after entering college.

The student initiates the request for examination at the Registrar's Office. The school dean and the department head will appoint a professor to construct, administer and evaluate the examination. The result is reported to the Registrar who records the grade if it is "C" or above.

The Honors Program

Entering students will be governed by policies clarified on page 29 of this catalog. In addition, students generally will not be admitted to the Honors Program after they have earned 30 credit hours. However, if such a student presents a plan to take the 24 honors hours required to complete the program, that student would be considered by the Honors Committee on an individual basis.

Graduation

- A. Graduation Requirements The responsibility for satisfying all requirements for a degree rests with the student. Advisers, faculty members and administrators offer help to the student in meeting this responsibility.
- B. Time of Graduation A student may complete graduation requirements at the close of any semester. Formal announcement of graduation is made and degrees are conferred at the close of the spring semester. All students completing graduation requirements since the preceding commencement are expected to participate in the commencement activities.
- **C. Placement Services** Each degree candidate must register in the Office of Career Planning and Placement.
- **D. Degree Candidacy Application** Each student must make application for degree candidacy during the semester preceding the last semester in attendance. The application form is available in the office of the Registrar.
- E. Senior Assessment All graduating seniors are required to complete a Core Curriculum and a departmental exit assessment before the baccalaureate degree is awarded. Effective: July 1, 1988.

Baccalaureate Degree Requirements

- A. Residence The student must have earned 30 out of the final 36 semester hours in residence at Missouri Southern. (This regulation does not apply to three-one affiliation programs.)
- B. Credit Hours At least 128 semester hours of college credit applicable to a baccalaureate degree are required for graduation.
- C. Grade Point Average The following grade point averages are required for graduation:
 - a 2.0 cumulative grade point average for all credit hours attempted;
 - 2. a 2.0 grade point average within the major (exception: selected majors may have other requirements);
 - 3. at least a 2.0 grade point average for all courses taken in the major department;
 - a grade point average of 2.75 and an ACT composite score of 20 Enhanced as required for the Teacher Education Program.
- D. Upper-Division Hours A minimum of 40 semester hours in upper division courses (those with numbers in the 300's and 400's) must be presented to meet the graduation requirements. Reasonable adjustments are made for three-one affiliation programs. Within the 40 upper-division hours students must choose one course selected for area 4 or area 5 of the Core Curriculum program.
- be required of all baccalaureate degree candidates. Six hours must be completed in the freshman year and two of the three remaining courses must be taken at the junior and/or senior level. One upper division course must be taken in the student's major. (Writing Intensive courses may be identified in the "schedule of classes" by a "WI" placed at the end of the course number. Example: Psy 480WI Senior Seminar.) Students transferring to Missouri Southern from another college will fulfill the Writing Intensive requirement as follows:

Total hours at time transfer to Missouri Southern:	Minimum Writing Intensive courses required:
Less than 30 hours	Five courses as outlined above
30 to 59 hours	Three courses, with at least two at the junior/senior level, one of which must be in the major
60 to 89 hours	Two courses at the junior/senior level, one of which must be in the major
90 hours or more	One course in the major

- F. Foreign Language All students expecting to graduate with a bachelor of arts degree must successfully complete 12 hours of the same foreign language as a part of the graduation requirements.
- G. Special Education All students expecting to graduate with a bachelor of science in education degree must successfully complete two hours of Special Education (Educ 302) as a part of graduation requirements.
- H. Computer Literacy All students will receive computer instruction to a level of understanding necessary for them to function as a member of society and to a level of skill sufficient to use the computer for problem solving within their discipline. Department heads will certify the competency of the students in their disciplines.
- Major Field A minimum of one half of the upper division courses that are required for the major must be earned in residence at Missouri Southern.
- J. Core Curriculum Requirements Missouri Southern has a Core Curriculum program that contributes toward the development of the whole person, as an individual and as a member of society. All degree candidates must satisfy the following Core Curriculum requirements:

Baccalaureate Degree

The second of th		Credit Hours
Area 1. Basic Requirements*		Required
A. English Composition		6
Freshman Year (Eng 101 and 102 OR		
achievement in the required competence		
level can be done in Eng 111 in 3 hours)		
B. Communication		(3)
Comm 100 Oral Communication		
C. **Mathematics (110 or above)		3
D. Physical Education		3
**HPER 103 Lifetime Wellness	(2)	
**HPER 101 Physical Activity	(1)	
Total For Ar	ea 1	15 Hours
Area 2. Humanities And Fine Arts		
A. Select one		3
Art 110 Art Appreciation	(3)	
Mus 110 Music Appreciation	(3)	
Th 110 Theatre Appreciation	(3)	
B. Select one		3
Eng 261,262 World Masterpieces	(3)	
Eng 271,272 English Masterpieces	(3)	
Eng 281,282 American Literature	(3)	
C. Select one		3
Eng 150 Introduction to Literature	(3)	
Eng 305 Short Story	(3)	
Eng 261,262 World Masterpieces	(3)	
Eng 271,272 English Masterpieces	(3)	
Eng 281,282 American Literature	(3)	
Phil 201 Introduction to Philosophy	(3)	
Art 110 Art Appreciation	(3)	
Mus 110 Music Appreciation	(3)	NAME OF THE PARTY
Th 110 Theatre Appreciation	(3)	
Total For A	rea 2	9 Hours

Area 3. Natural Science and Behavioral Sciences*	
A. **Bio 101 General Biology	(4)
B. **Phy 100 Fundamentals of Physical Science	5
C. Select one	3
**Psy 100 General Psychology (3)	
Soc 110 Sociology (3)	
Total For Area 3	12 Hours
Area 4. American Cultural Studies*	
A. Hist 110 US History 1492-1877 and	3
Hist 120 US History 1877-Present	
Hist 320 US History 1877-Present	3
PSc 120 Gov't: U.S., State, Local	3
Econ 180 American Economic System	3
(Majors and minors in business should take Econ 201)	
Total For Area 4	12 Hours
Area 5. International Cultural Studies*	
A. Select one:	3
Hist 130 or 140 Western Civ (3)	
Geog 211 Regions and Nations (3)	
Soc 155 Phys Anthropology & Archeology (3)	
Foreign Language (3)	
GB 310 International Business (3)	ý.
Soc 342 Comparative Cultures (3)	
Comm 305 Intercultural Communication (3)	
Total for Area 5	3 Hours

*Occasionally, selected courses may be substituted for this area. **See degree requirements listed in the Catalog for courses that are substituted for specific majors.

51 Hours

Associate Degree Requirements

Associate of Arts Degree

Total Core Curriculum Requirements

- A. Credit Hours A minimum 64 semester hours must be completed.
- B. Residence The last 15 semester hours must be completed in residence at Missouri Southern.
- C. Grade Point Average Minimum cumulative and major field grade point average must be 2.0.
- D. Major Field The student must meet the course requirements of the particular preprofessional program selected. Or, the degree may consist of the general education courses plus additional hours, adding up to 64, as approved by the adviser and the Vice President for Academic Affairs.
- E. Core Curriculum Requirements The degree requires completion of the following Core Curriculum requirements:

Area 1. Basic Requirements*	Credit Hours Required
A. English Composition	Kequireu
Freshman year (Eng 101 and Eng 102 OR	0
achievement in the required competency	
level can be done in Eng 111 in 3 hours)	

B. **Comm 100 Oral Communication		3
C. **Mathematics (Math 110 or above)		3
D. Physical Education		3
	(0)	3
**HPER 103 Lifetime Wellness	(2)	
**HPER 101 Physical Activity	(1)	
Total for Ar	ea 1	15 Hours
Area 2. Humanities and Fine Arts*		
A. Select one		3
Art 110 Art Appreciation	(3)	
Mus 110 Music Appreciation	(3)	
Th 110 Theatre Appreciation	(3)	
B. Select one	(0)	3
Eng 261,262 World Masterpieces	(3)	3
Eng 271,272 English Masterpieces		
Eng 281,282 American Literature	(3)	
	(3)	
C. Select one		3
Eng 150 Introduction to Literature	(3)	
Eng 305 Short Story	(3)	
Eng 261,262 World Masterpieces	(3)	
Eng 271,272 English Masterpieces	(3)	
Eng 281,282 American Literature	(3)	
Phil 201 Introduction to Philosophy	(3)	
Art 110 Art Appreciation		
Mus 110 Music Appreciation	(3)	
Mus 110 Music Appreciation	(3)	
Th 110 Theatre Appreciation	(3)	
Foreign Language	(3)	
Total for Are	ea 2	9 Hours
Area 3. Natural Sciences*		
The for deficial blology		4
AND		5
**Phys 100 Fundamentals of Physical Scien		
Total for Are	ea 3	9 Hours
Area A Carial - IRI : IC:		
Area 4. Social and Behavioral Sciences*		
A. PSc 120 Gov't: U.S., State, Local		3
B. Hist 110 U.S. History 1492-1877 OR		3
Hist 120 U.S. History 1877-Present	(3)	
C. Select One:	in our	3
Hist 130 or 140 Western Civ	(3)	
Geog 221 Regions and Nations	(3)	
Soc 155 Phys Anthropology & Archeology	(3)	
Soc 110 Sociology		
	(3)	
Psy 100 General Psychology	(3)	
**Econ 180 American Economic System	(3)	
Total For Are	a 4	9 Hours

*Occasionally, selected courses may be substituted for this area. **See degree requirements listed in the Catalog for courses that are substituted for specific majors.

42 Hours

Associate of Science Degree

Total Core Curriculum Hours

- A. Credit Hours A minimum of 64 hours must be completed.
- B. Residence The last 15 semester hours must be completed in residence at Missouri Southern.

C. Grade Point Average - The minimum cumulative and major field grade point average must be 2.0.

D. Major Field - The student must meet the course requirements in the particular program of study as approved by an adviser.

E. Core Curriculum Requirements - The degree requires completion of the Core Curriculum courses as well as those outlined in the student's major field of study. The Core Curriculum required courses are:

Area 1. Basic Requirements* A. Eng 101 English Composition B. **Comm 100 Oral Communication C. **Math 30 (or above) D. Physical Education ** HPER 103 Lifetime Wellness ** HPER 101 Physical Activity Total fo	(2) (1) r Area 1	Credit Hours Required 3 3 3 3 3 1 12 Hours
Area 2. Humanities and Fine Arts* A. Select One: Art 110 Art Appreciation Mus 110 Music Appreciation Th 110 Theatre Appreciation Any literature except 325 Phil 201 Introduction to Philosophy Total for	(3) (3) (3) (3) (3) Area 2	3 3 Hours
Area 3. Natural Science* A. **Bio 101 General Biology B. **Phy 100 Fundamentals of Physical Scients Total for	ence Area 3	4 5 4-5 Hours
Area 4. Social and Behavioral Sciences* A. Select One: PSc 120 Gov't: U.S., State, Local Hist 110 OR	(3)	3
Hist 120 United States History B. Select One: Psy 100 General Psychology Soc 110 Introduction to Sociology **Econ 180 American Economic System	(3) (3) (3) (3)	3
Total for A	rea 4	6 Hours
Total Core Curriculum Requirements	2	25-26 Hours

*Occasionally, selected courses may be substituted for this area.

**See degree requirements listed in the Catalog for courses that are substituted for specific majors.

Core Curriculum courses required for the associate of science degree typically do not completely fulfill the Core Curriculum requirements for the baccalaureate degree.

When the curriculum requirement for an associate of science degree specifies a different course in the discipline than those listed above, the specified course may meet the Core Curriculum requirements for that degree.

A Bachelor of General Studies (B.G.S.) Degree

B.G.S. degree is a viable alternative for a few individuals who may wish thorough preparation for a career in a specific field. To pursue this option the student should consult with the Registrar regarding the degree.

Academic Minor

Selected departments have developed an academic minor that in conjunction with the major strengthens the students vocational preparation. See each department for details.

Special Requirements

Physical Education Requirements

All students are required to satisfactorily complete 3 hours of physical education before they are permitted to graduate. Currently, students must complete HPER 101, Physical Activity and HPER 103, Lifetime Wellness.

Students should take these courses during the freshman and sophomore years. Students who meet the following conditions may be exempt from all or part of this requirement:

A. Students who transfer from colleges where physical education is not taught will be exempt from the requirements as follows: (1) students transferring less than 15 semester hours will not be exempt from any of the requirements; (2) students transferring 15 to 60 semester hours will be exempt from one hour of physical education.

B. Upon presentation of proper documentation to the Registrar, a veteran may petition for exemption from physical education.

State Legislation Requirement

Sections 10373, 10374, 10374a, 10374b, 10374c (S.C.S. for S.B.4) of the Laws of Missouri, 1947 (6th General Assembly), prescribe that all candidates for a degree issued by the colleges and universities of Missouri must have completed courses of instruction in and "satisfactorily passed an examination on the provisions and principles of the Constitution of the United States and of the state of Missouri, and in American History, including the study of American Institutions."

Students may comply with the law (1) by completing courses embracing the subject matter specified by the law and receiving credit therein, preferably before admission to senior college work, or (2) by certification of the completion of such requirements in another collegiate institution.

All students who have completed the Core Curriculum Requirements meet the requirements of Missouri law. Out of state students who do not complete their general education at Missouri Southern must pass a special examination on the Missouri Consti-

School Laws of Missouri, 1974, require that persons cannot be granted a certificate or license to teach in the public schools of Missouri unless they have satisfactorily completed a course of two

or more semester hours in the psychology or education of the exceptional child. This requirement can be met by taking Psy 302.

Commencement Requirements

Degrees are conferred only at scheduled commencement exercises. If a student completes requirements for a degree after a commencement date, the degree will be granted at the next scheduled commencement. A certified statement of completion of graduation requirements may be obtained at the Registrar's Office. No student will be permitted to participate in the commencement exercise whose name does not appear on the commencement program. A student ready for graduation must be present at commencement in order to receive a degree. However, a candidate may graduate in absentia with the permission of the Vice President for Academic Affairs.

General Regulations

Classification of Students

A. By Class:

Freshman: 0-29 Hours Sophomore: 30-59 Hours Junior: 60-89 Hours Senior: 90 and above

Special Admission: See College Catalog

B. Postgraduate:

Persons having completed a baccalaureate degree but taking courses for the purpose of teacher certification, job preparation and additional degree or personal profit.

C. Full-time:

A student enrolled for 12 or more semester hours.

D. Part-time:

A student enrolled in 11 or less semester hours.

Dual Credit

A student who is enrolled in residence at Missouri Southern and who desires to earn credit concurrently at another institution or through correspondence extension, advanced standing examination or USAFI examinations must secure advanced approval from the Vice President for Academic Affairs. Exceptions: Armed Forces personnel will be granted 60 days from the date of their first enrollment to establish, through USAFI examinations, advanced standing in subject matter which they mastered while in the Armed Forces.

Second Baccalaureate Degree

A student may receive a second baccalaureate degree after completing the first degree and all the requirements of the second degree. (Exception: Students may not count the professional education courses of the first degree as electives toward the second degree.) The "Residency" does apply.

Transcript Below "C" Average

Students who are accepted with a below "C" transcript and who are below the minimum standards for progress will be placed on Academic Probation. Missouri Southern accepts all grades from any equally accredited institution including both "D's" and "F's."

Maximum Credit Hour Load

To enroll in more than 18 semester hours during a semester or in more than nine hours during a summer session, a student, with the exception of music majors, must obtain prior written permission from the school dean. Music majors may carry as many as 20 semester hours without permission from their dean.

Late Enrollment

No student will be permitted to enroll in a regular semester after the first week of classes and or after the third day of classes in a summer session. Any student enrolling after classes begin will pay a late enrollment fee.

Withdrawal from College

A student who wishes to withdraw will initiate withdrawal in the Office of Counseling and Testing (114 Hearnes Hall). A student who withdraws prior to the end of the ninth week of a regular semester and the end of the 25th day of a summer session will receive a "W" on the permanent record. If the student withdraws after these deadlines, courses will be listed on the permanent record with a grade of "F." A student who leaves school without officially withdrawing shall receive grades of "F" in all courses.

Dropping Courses

A student may initiate the dropping of a course in the Registrar's Office. Deadlines and grades cited in the College Catalog apply.

Adding Courses

A student may add a course in the Registrar's Office, but only upon the approval of an adviser. A fee of \$5.00 will be charged each time a student changes the program not at the request of the College. No course may be added after the first week of classes in a regular semester and after the third day of classes in the summer session.

Class Attendance

Faculty members keep records of attendance in all regularly scheduled courses at Missouri Southern.

The primary objective of student and professor is the student's attainment of course goals. It is recognized that students who achieve those objectives are normally those who attend class regularly. The professor, when giving a final semester grade, bases his evaluation on how well the student has achieved the course

In the event that a student misses any class for ten (10) consecutive working days, the faculty member will report this in writing to the Office of Financial Aid.

Missouri Southern may discontinue the enrollment of any student for non-attendance.

Students who miss a class do so at their own risk and must assume the responsibility for work missed because of class absences. Professors are willing to assist students whose absences are caused by valid illnesses, college approved activities and extenuating circumstances. The professor may require whatever evidence is needed to support the reason for absence. Students who are absent two class meetings more than the credit hours of the

course may be dropped from the course with approval of the Vice President of Academic Affairs.

The attendance record is significant to the total record and is useful in guidance and counseling. When absences are excessive, the professor will report the fact to Student Services and they will in turn counsel with the student. The total number of student absences in a class will be reported to the Registrar's Office along with the final grade at the end of the semester.

Students should be aware that absence from class invariably has a built-in penalty of lower academic achievement. Excessive absences usually result in failure to achieve the course goals.

Grades and Grading Policies

Grading System

A student's grade is officially recorded by letter. At Missouri Southern, the following grades and their numerical equivalents are used:

Grade		Grade Poin
Α	Outstanding	4
В	Above Average	3
	Average	2
	Minimum Passing	1
F	Failing	0
W	Withdrawal	

The current policy for the "W" grade is as follows:

- (a) Course withdrawals will be permitted through the first week of the semester without any grade recorded.
- (b) Course withdrawal during the second through the ninth week of the semester will be indicated by a "W" posted to the record.
- (c) Course withdrawals are not permitted after the seventh week of the regular semester (or its equivalent). Exceptions to this policy are infrequent and must be pursued by means of academic petition. A student who stops attending class without officially withdrawing is in jeopardy of receiving an "F" in the course.
- I Incomplete A grade of "I" may be reported if a student is unable to complete the work of the course within the semester for a valid reason such as illness, death in the family, an emergency, etc. It is not intended as a substitute for a student to attend the class during a subsequent semester. An incomplete must be made up by the excluding summers) or it will be converted to an "F" automatically. Both credit and grade points for that course are suspended until the incomplete is converted to either a passing grade or an "F."
- AU Audit A student may audit a class for no grade and no credit. Acceptable performance, attitude and attendance as determined by the professor are expected. Regular fees and enrollment procedures are required. A student may not change enrollment from audit to credit nor from credit to audit. An audit means only that a student registered for the course. It does not imply any level of proficiency or knowledge.

Change of Grade

A change is initiated by the faculty member by filing a Change of Grade form with the Registrar. No change of grade is to be made without good cause. Exceptional cases will be reviewed by the immediate supervisor, school dean and Vice President for Academic Affairs.

Independent Study

Independent study courses are special courses which may be taken by outstanding students at the discretion of the faculty adviser and the appropriate college officials. Students may enroll in independent study courses for a total of three hours on the associate degree and a total of six hours on the baccalaureate degree providing they:

1. have completed:
Associate Degree - 30 hours
Baccalaureate Degree - 90 hours

2. have a minimum cumulative 3.00 GPA

3. have permission of the adviser, department head and the school dean in the area of independent study.

Independent study is designed for the individual who desires to explore a topic more completely than can be done in a regular course offering. Substituting independent study for a regular course is seldom done.

Posting of Grades

College legal counsel advises that the public posting of a student's name and grade, or student number and grade, without the student's approval, is a violation of the Buckley Amendment (Family Educational Rights and Privacy Act of 1974) which does not allow disclosure of recorded data or information without the individual's written consent.

Official Transcript

An official transcript of the student's academic record bears the Registrar's signature and the College seal. Missouri Southern assumes no responsibility for the accuracy of a transcript after it leaves the Registrar's Office.

Up to two weeks must be allowed after the close of a semester for the issuance of an up-to-date transcript. The transcript request must be made in writing. Each student is entitled to two (2) free transcripts. Additional copies cost \$1.00 each. No transcript will be issued unless all bills at Missouri Southern are paid or are current according to agreement with the Business Office.



Academic Standards

Good Standing and Eligibility

Students enrolled at Missouri Southern are in good academic standing when they meet the normal progress toward graduation as described below. Those falling below the prescribed norm will be placed on academic probation. Persons failing to achieve normal progress toward graduation during the probationary period are subject to academic suspension.

Exception: Students receiving financial aid. See College Catalog (page 22).

Those students competing in intercollegiate athletics or in organizations representing the College off campus shall be required to satisfy minimum standards of progress, as indicated below, following the completion of the first academic year in order to maintain future eligibility in these programs.

Academic Bankruptcy

A student may petition the Academic Policies Committee to request one semester of academic work be disregarded in computing the academic record. To be eligible for petitioning, a student must be currently enrolled, in good standing and must document the unusual conditions which justify the petition. The petition may be initiated in the Registrar's Office.

Academic Bankruptcy can never be used as a means of obtaining academic honors or athletic eligibility. Academic Bankruptcy will not remove grades from the student's permanent record. It merely allows one semester of recorded work to be eliminated in computing the student's scholastic average.

Developmental Courses

Occasionally, scores obtained from the placement tests indicate a student may not be successful in college. The College reserves the right to require these students to take precollege courses in mathematics, language arts and reading prior to participation in regular college classes.

Standards of Progress Toward Graduation*

A student's cumulative grade point average (GPA) is used to evaluate progress. If the grade point average falls below the minimum standards of progress, the work is considered unsatisfactory.

Progress toward a degree is computed on the following grade point averages:

A. For Associate Degree

Hours Attempted	Grade Point Average
1 - 22 semester hours	1.6
23 - 33 semester hours	
34 - 44 semester hours	
45 - 55 semester hours	
56 & Above	
D. F D	

B. For Baccalaureate Degree

Hours Attempted	Grade Point Average
1 - 22 semester hours	

23 - 44 semester hours
45 - 66 semester hours
67 - 68 semester hours
89 - 110 semester hours
111 & Above

*Students who receive financial aid must comply with federal standards. The above may not reflect those standards.

Academic Probation, Suspension and Reinstatement

Each student should consider a grade point average of less than 2.0 as a warning.

Those falling below the standards of progress toward graduation will be placed on academic probation. If the grade point average is not raised to the minimum standard of progress during the probationary semester, the student is subject to immediate academic suspension from the College.

A student receiving academic suspension must stay out of Missouri Southern for one semester.

Re-entry may be denied by the Vice President for Academic Affairs if the student cannot present evidence that indicates a high probability of academic success.

Repetition of Courses

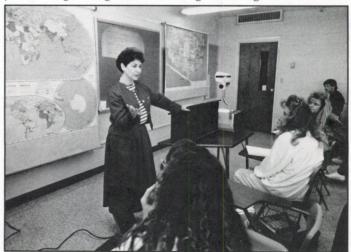
A course in which a student has made a grade of "D" or "F" may be repeated. The grade and grade points in the repeated class will be canceled and the second grade will be used in computing grade point averages.

298-498 Classes

Classes numbered 298 or 498 may not be counted toward Core Curriculum credit.

Honor Roll

An Honors or Dean's List, issued at the end of each semester, contains the names of full-time students who have a 3.75 grade point average or higher with no "I" grade or a grade below "C."



Graduation Honors

In recognition of superior scholarships the College awards honors to associate degree and baccalaureate degree graduates. Honors listed below are not earned until courses are completed, graded and posted on the students' permanent record.

Associate Degree - The student must have completed a minimum one half of the hours required for the degree in residence at Missouri Southern State College. The cumulative grade point average required to receive:

First Honors	3.90-
Second Honors	3.80-3.89
Third Honors	3.70-3.79

Baccalaureate Degree - Eligibility for any one of the following three honors requires the candidate to study all the junior and senior years at Missouri Southern and earn a minimum of 60 hours of credit:

Summa Cum Laude	3.90-
Magna Cum Laude	3.80-3.89
Cum Laude	3 70-3 79

Course Numbers and Levels

Course Numbers:

0 - 99 Applicable toward the associate degree only

100 - 199 Primarily for freshmen 200 - 299 Primarily for sophomores 300 - 399 Primarily for juniors

400 - 499 Primarily for seniors

Normally, courses numbered 100-299 are considered junior or lower division level courses and those numbering 300-499 are senior or upper division level courses. There are more significant distinctions between the sophomore and junior years than within the levels of the lower and upper divisions.

The student should check the catalog description of the course to see whether the second semester of a sequence course makes the first semester a prerequisite.

Freshmen are not allowed to take any course above the 200 level unless qualified by advanced placement tests. The exception is infrequent.

All courses offered are listed in the catalog. Immediately following each course title is a letter abbreviation of the semester in which the course is usually offered. Students and faculty should use this as a guide in considering future enrollment. However, this should not be interpreted as a contract. Missouri Southern reserves the right to deviate from this commitment when enrollment, or other factors dictate.

Major or Area of Interest

All students will be required to declare their degree sought, their major (or area of interest), their status (regular or other) and whether they will attend part-time or full-time.

Revised Standards for Veteran's Educational Benefits

The Revised Standards for Veteran's Educational Benefits as adopted by the State Board of Education on February 17, 1977, are available in the Veteran's Affairs Office. Each Veteran should see the veteran counselor or veterans representative regarding these policies.

Any exceptions to the regulations above must receive written approval from the Vice President for Academic Affairs.

Special Policies for Financial Aid Recipients

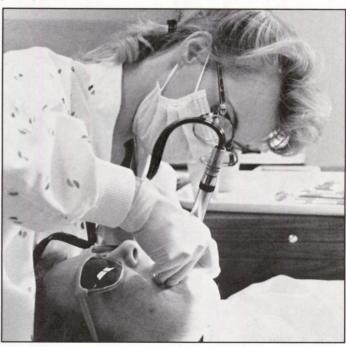
Special policies and regulations governing financial aid recipients are filed in the Financial Aid Office, the Business Office and the Office of the Vice President for Student Services.

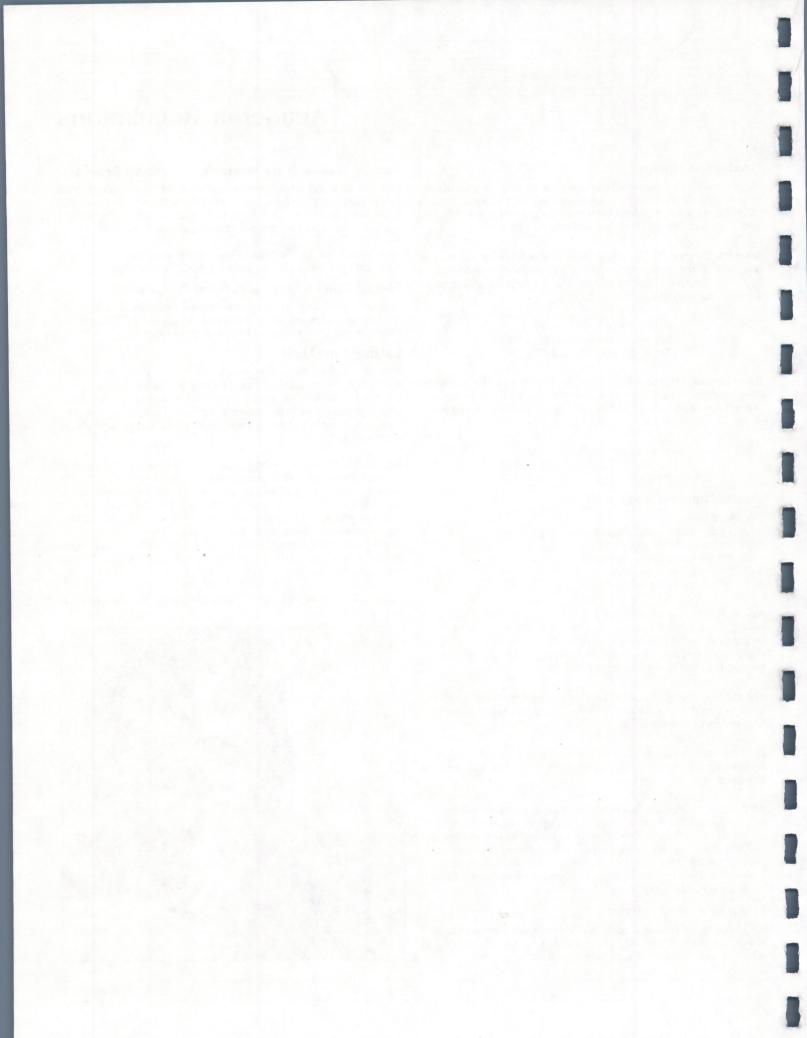
Catalog Time Limit

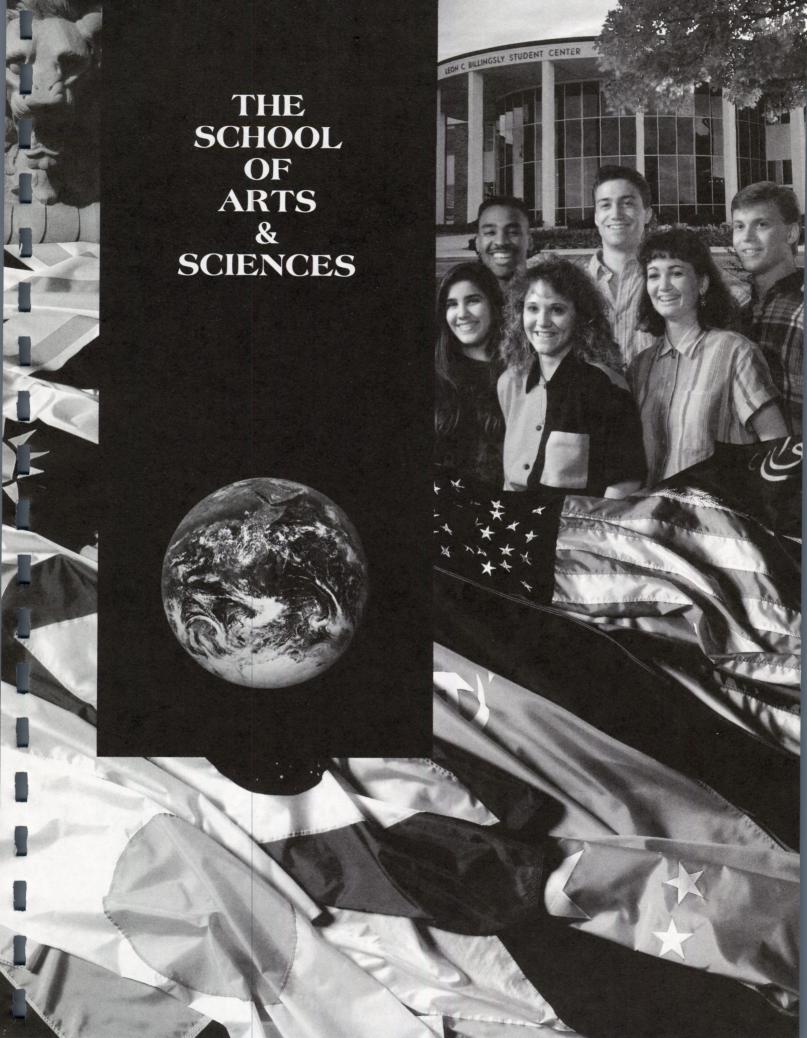
A candidate for a degree may use, as a basis for degree requirements, the general catalog issued for any year following the date of the candidates first registration at MSSC provided it is not more than five years prior to the date the degree is to be conferred. The candidate must have been in residence, at MSSC, during the year of the catalog selected.

Transfer Student: The MSSC catalog in effect at the time of the transfer student's initial enrollment in the sending institution (transfer school), will govern the transfer student's degree requirements. The transfer student must have had continuous enrollment and remain in the same degree program. The catalog used may not be dated more than five years prior to the date the degree is to be conferred. The transfer student must have been enrolled in a previous school during the year of the catalog selected.

The degree requirements in the 1991-93 Catalog, became effective June 1, 1991.







School of Arts and Sciences

School Dean

Ray A. Malzahn Hearnes Hall 318, 625-9385

Degrees and Majors

Bachelor of Arts

Art

Communications

Chemistry

English History

Music

Music

Political Science

Sociology

Spanish

Theatre

Bachelor of Science

Biology

Chemistry

Mathematics

Physics

Sociology

Bachelor of Science in Education

Art

Biology

Chemistry

English

Mathematics

Music

Physics

Social Science

Spanish

Speech-Theatre

Options and Emphases

Art (B.A.)

Studio Art

Graphic Communications

Communications (B.A.)

Speech Communications

Mass Communications

Music (B.S.E.)

Instrumental

Vocal

Double Certification

Social Sciences (B.S.E.)

History

Political Science

Sociology

Minors:

See Departments

Role

Consisting of seven departments and 13 major disciplines, the School of Arts and Sciences has two primary roles. One is to provide the foundation of all higher education called the liberal arts component or Core Curriculum. The other is to educate students for professional careers and for graduate school. The Core Curriculum at

Missouri Southern is designed to meet the needs of the individual and of society, needs which include communicating, critical thinking, clarifying values, functioning within social institutions, using science and technology and using the arts.

Scope

The School of Arts and Sciences has three principal responsibilities: teaching, research and creative activities and community service.

Quality teaching, the first responsibility, is essential to sound academic programs. Consequently, teaching is important to liberal arts and is the major role of the faculty. In the School of Arts and Sciences, the faculty strive to educate students both deeply within a discipline and widely across disciplines; deeply, to help them achieve excellence and widely, to help them develop a lifelong habit of self education and thus readily adapt to change.

The second responsibility of the School of Arts and Sciences is scholarly research and creative activity. The aim of scholarly research is both improvement of teaching and advancement of knowledge. The aim of creative activity and performance is to enrich the participant's understanding and proficiency both as a teacher and as an artist and to enhance the cultural opportunities of the community.

The third responsibility of the School of Arts and Sciences, one which is closely related to the first two, is community service as an academic and cultural resource. The School functions as an academic resource by consulting and providing academic expertise to help solve community problems. It functions as a cultural resource by presenting to the public films, arts exhibitions, dramatic productions, musical concerts and recitals.

Art

Art Building 303, 625-9563

Faculty Schwieger - Head, Christensen, Fowler, Goldman, Hess, Noblett

Career opportunities available for the qualified bachelor of arts degree graduates are in commercial art, free-lance and private studio lessons. This degree also prepares the graduate to enter an advanced degree program on the masters level in a specific art discipline. Graduates with a bachelor of science in education degree with a major

Art 211 Beginning Sculpture*

Art 205 Beginning Jewelry*

OR

Art 230 Basic Form*

Art 232 Beginning Painting*

Art History or Seminar (upper division)

Art 312 Beginning Sculpture*

in art are certified through the teacher education program to teach on K-12 or the senior high school levels (7-12) in the state of Missouri.

Degree requirements in the four art programs - B.A. (studio emphasis); B.A. (graphic communications); B.S.E. (one of two teaching fields); B.S.E. (single teaching field) - are such that it is extremely important that students majoring in art meet with their faculty advisers each semester. Students are responsible for contacting their adviser after completing 21 semester hours in art to make application for their lunior Review. For this review, students are required to submit a representative sampling of their creative work, a record of academic progress and a statement of intent and/or objectives for examination by a committee of the art faculty. Written permission of the Junior Review Committee is required for a student to enroll in Art 490 Senior Exhibit. The committee meets at the beginning of each fall and spring semester. Entering transfer students must make application for the review during their first semester. Application forms and more detailed information are available in the department of art office, 303 Art Building.

Core Curriculum requirement for non-art majors, for one course in Area 2, Humanities and Fine Arts, is fulfilled by Art 110, Art Appreciation.

Bachelor of Arts with a Major in Art

Emphasis I Studio Art

Semester Hours

Core Cu	rriculum Requirements	
(page 35	5)	5
Comput	er Literacy Requirement -	
determi	ned by the art department	2-
Foreign	Language (four courses in	one
language	e)	1
	uirements	5
Art 100	Art Composition	3
Art 120	Beginning Ceramics	3
Art 130	Beginning Drawing	3
Art 132	Introduction to Design	3
Art 211	Beginning Sculpture*	3
Art 205	Beginning Jewelry*	
OR		
Art 230	Basic Form*	3
Art 232	Beginning Painting*	3
Art	Art History or Seminar	
	(upper division)	9
1 . 240	D ' ' D' ' I' *	0

Art 490 Senior Exhibit*	2	Cadd 115 Intro to CAD****	3	Art 232	Beginning Painting**	3
	18	Comp 105 Intro to Micro Use****	3		Beginning Printmaking**	
	9-10	Comp 115 Computing I****	3	Art	Art History	9
	28**	****Satifies departmental computer		Art 490	Senior Exhibit	2
*See Prerequisites		literacy requirement (select one).		Art	Electives	12
**Must include at least 40 upper divis	sion			Education	on Certification Requireme	
(300 - 400 level) hours.		Bachelor of Science in		(page 11	8)	40-4
			•	. 0		137-13
		Education with a Major	in	*Psy 100	satisfies certification	
Bachelor of Arts with a		Art			ments and 3 hours of the C	Core
Major in Art		Plan A		Curricu	lum. Area 3C	
				**See Pi	rerequisites included with	course
Emphasis II		One of Two Teaching Field	ds	descript	tions	
Graphic Communications		Semester	Hours			
Semester Ho	ours	Core Curriculum Requirements		Mino	r in Art	
Core Curriculum Requirements		(page 35) 51*	48			r Hour
(page 35)	51	Art Requirements	41	Art 100	Semeste Art Composition	3
Computer Literacy Requirement -		Art 100 Art Composition	3	Art 120	Beginning Ceramics	3
determined by the art department	1-3	Art 120 Beginning Ceramics	3		Beginning Drawing	3
Foreign Language (four courses in one		Art 130 Beginning Drawing	3		Beginning Printmaking*	3
anguage)	12	Art 132 Introduction to Design	3	Art 211	Beginning Sculpture*	3
Art Requirements	53	Art 200 Arts & Crafts	3	OR	- Garage	
Art 100 Art Composition	3	Art 211 Beginning Sculpture**	3		Beginning Jewelry*	
Art 120 Beginning Ceramics	3	Art 220 Art Education	2	OR	-8	
Art 130 Beginning Drawing	3	Art 230 Basic Form**	3	Art 230	Basic Form*	3
Art 132 Introduction to Design	3	Art 232 Beginning Painting**	3	Art 110	Art Appreciation	
0 0	3	Art 312 Beginning Printmaking**	3	OR		
Art 205 Beginning Jewelry* OR		Art Art History (upper division) Art Electives		Art	Art History	3
	2		3	Art 232	Beginning Painting*	
	3	Second Teaching Field (some fields ex 30 hours)		OR		
	3		30	Art 310	Watercolor*	3
	9	Education Certification Requirements (page 118)				21
Art 300 Advanced Drawing*	9	159-1	40-41		requisites included with co	ourse
OR		*Psy 100 satisfies certification require		descripti	ions	
	3	and 3 hours of the Core Curriculum.	licitis			
	3	Area 3C				
	3	**See Prerequisites included with co	nirse	Sugge	ested Orders of Stu	udv
Art 325 Graphic Communications I* 3		descriptions	, arse			udy
Art 350 Graphic Communications II*		***(Varies with 2nd Field)		Bachelor Co.		
	3			Major Co		
Art 425 Graphic Communications III*		Pachalou of Science in			I: Studio Art	
	3	Bachelor of Science in				
Art 450 Graphic Communications IV*		Education with a Major i	n	Freshman		
3	3	Art		1st Semes	ter	
Art 490 Senior Exhibit* 2	2	DI D C: 1 T 1: 5:1		Course Art 100	Art Composition	Hours
	9-10	Plan B Single Teaching Field	d	Art 130	Beginning Drawing	3
128	3***	Semester H	Hours	CORE	[Eng 101 Comp I]	3
See Prerequisites	La -	Core Curriculum Requirements		CORE	[Math 110 Intro to Col Math	
Suggested Elective Courses		(page 35) 51	48	CORE	[Hist 110 U.S. History]	3
**Must include at least 40 upper		Art Requirements	49	CORE	[HPER 103 Lifetime Wellness	-
livision (300 - 400 level) hours.		Art 100 Art Composition	3			17
DA 101 Typewriting 3	3	Art 120 Beginning Ceramics	3			
CADD 110 Introductory Drafting 3	3	Art 130 Beginning Drawing	3	2nd Seme		100
Comm 120 Mass Communications 3	3	Art 200 Arts & Crafts	3	Art 132	Intro to Design	3
	3	Art 211 Beginning Sculpture**	3	Art 120	Beginning Ceramics	3
CJAd 210 Beginning Photography 3				CORE	[Eng 102 Comp II]	3
CJAd 210 Beginning Photography 3 AM 300 Principles of Marketing 3	3	Art 220 Art Education	2	CORE	[Comm 100 Oral Comm]	2
CJAd 210 Beginning Photography 3	3	Art 220 Art Education Art 132 Introduction to Design	2 3	CORE	[Comm 100 Oral Comm] [Hist 120 U.S. History]	
CJAd 210 Beginning Photography 3 AM 300 Principles of Marketing 3	3 3 3			CORE CORE	[Comm 100 Oral Comm] [Hist 120 U.S. History] [HPER 101 Physical Activity]	3 3 1

Art

Sophomor			Freshman 1st Semes			Foreign La	nguage	3 17
1st Semes			Course		Hours			
Art 205	Beginning Jewelry*		Art 100	Art Composition	3	2nd Semes	ctor	
OR	D	2	Art 130	Beginning Drawing	3	Art	Art History**	3
Art 230	Basic Form*	3			3		Graphic Comm IV****	3
Art 232	Beginning Painting*	3	CORE	[Eng 101 Comp I]		Art 450		
CORE	[Bio 101 General Biology]	4	CORE	[Math 110 Intro to Col Math]	3	CORE	[Econ 180 Amer Econ Syste	
CORE	[Comp 105 Computer Literacy]	3	CORE	[Hist 110 U.S. History]	3	Elective	[Bus 320 Bus Comm]	3
Art	Electives approved by the		CORE	[HPER 103 Lifetime Wellness]	2	Elective	[CJAD 210 Beginning Photo	ography
	adviser***	3	CORE	[Psy 120 College Orientation]	1			3
		16			18	Foreign La	inguage	3
						O	0 0	18
0 10			2nd Seme	ster		*See Prere	equisites	
2nd Seme		2	Art 132	Intro to Design	3		requiredselect from Art 30	1. 302.
Art 110	Art Apprec	3	Art 120	Beginning Ceramics	3	303, 304 o		., ,
Art 211	Beginning Sculpture*	3			3		es departmental requirement	for a
CORE	[Phys 100 Fund of Phys Sci]	5	CORE	[Eng 102 Comp II]				101 a
CORE	[Soc 110 Intro to Sociology]	3	CORE	[Comm 100 Oral Comm]	3	computer	application course.	
Art	Electives***	3	CORE	[Hist 120 U.S. History]	3		10:	
		17			16		of Science in Education	
						Major Co		1
			Sophomoi	re Year		Art Major	(Plan B) Single Teaching F	Field
Junior Ye			1st Semes	ter				
1st Seme	ster		Art 205	Beginning Jewelry*		Freshman		
Foreign L	anguage	3	OR	beginning jewen j		1st Semes	iter	Securification
CORE	[Mus 110 Music Apprec]	3		Pacie Form*	3	Course		Hours
OR			Art 320	Basic Form*	3	Educ 100	Orientation to Educ I	1
CORE	[Th 110 Theatre Apprec]	3	Art 310	Watercolor*		Psy 100	General Psychology	3
CORE	[Hist 130/140 Western Civilization		Elective	[OA 101 Typewriting]	3	Art 100	Art Composition	3
COKL	[1113t 150/140 Western Civilization	3	CORE	[Bio 101 General Biology]	4	CORE	Eng 101 Comp I	3
	FI***	6	CORE	[Eng 271/272 English Lit]	3	CORE	[Math 110 Intro to Col Ma	
Art	Electives***			A Proposition of the Proposition of the	16			
		15				CORE	[HPER 103 Lifetime Wellne	
			2nd Seme	ester		CORE	[Psy 120 College Orientation	
2nd Sem	ester		Art 211	Beginning Sculpture*	3			16
Art	Art History**	3	Art 232	Beginning Painting*	3			
Art 312	Beginning Printmaking*	3				2nd Seme	ester	
		3	Elective	[CADD 110 Intro to Drafting]		Art 110	Art Apprec	3
	Language		CORE	[Phys 100 Phys Sci]	5	Art 130	Beginning Drawing	3
CORE	[PSc 120 Gov't: U.S., State, Loc		CORE	[Eng 281/282 American Lit]	3		Intro to Design	3
		3			17	Art 132	intio to Design	
Art	Elective***	3				OR		2
		15	Junior Ye	ar		Art 230	Basic Form*	3
			1st Seme			CORE	[Comm 100 Oral Comm]	3
Senior Ye	aar		Art 110	Art Apprec	3	CORE	[Eng 102 Comp II]	3
1st Seme			Art 300	Advanced Drawing*	9	CORE	[HPER 101 Physical Activit	ty] 1
		3		Advanced Drawing		Psy 301	Adolescent Psychology	3
Art	Art History**		OR	1:/- D*	2	,	,	19
Art 490	Senior Exhibit*	2	Art 412	Life Drawing*	3			
CORE	[Eng 281/282 American Lit]	3	Art 325	Graphic Comm I*	3	C	V	
Art	Electives***	3	Foreign L	anguage	3	Sophomo		
CORE	[Econ 180 Amer Econ System]	3	CORE	[Hist 130/140 Western Civiliz	ation]	1st Seme		
Foreign	Language	3			3	Educ 200		1
		17			15	Art 200	Arts & Crafts	3
						Art 220	Art Education	2
and C.	ander Manager and		2nd Sem	ester		Art	Elective	3
2nd Sem		2		Art History**	3	CORE	[Bio 101 General Biology]	4
Art	Art History**	3	Art			CORE	[Hist 110 U.S. History]	3
Art	Electives***	6	Art 312	Beginning Printmaking*	3	CORE	[PSc 120 Gov't: U.S., State	
Electives	Approved by the adviser***	6	Art 350	Graphic Comm II*	3	CORE	[F3C 120 GOV 1. O.S., State	e, Local)
Foreign	Language	3	Foreign I	anguage	3			3
0		18	CORE	[Soc 110 Intro to Sociology]	3			19
*See Pre	erequisites				15			
	rs required-select from Art 301, 302)				2nd Sem	ester	
	04 Art History	-/	Senior Ye	ar		Apply for	r admission to Teacher Educa	ation
			1st Seme			Educ/Psy		2
	ct from 300 or 400 level courses				3	302	e Exceptional Cilia	A THE LINE TO
[]Depart	tment Recommendation		Art 100	Art History**			Computer Software	2
			Art 490	Senior Exhibit*	2	Educ 401		
Bachelo	r of Arts		Art 425	Graphic Comm III*	3		If computer literacy requi	
Major C	ode 1002		CORE	[PSc 120 Gov't: U.S., State, I	Local]		not met in the specialty	1
Art Majo					3		department.	
Emphasi			Elective	[MM 300 Prin of Marketing]	3	Art 211	Beginning Sculpture*	3
				0				

	Art 232 CORE CORE	Beginning Painting* [Eng 281/282 American Lit] [Phys 100 Fund of Phys Sci]	3 3 5 18
	Junior Year		
	1st Semeste	er	
	Pass Media Psy 310 Educ 329	Competencies Educational Psychology Pedagogical Theory, Methods Practices	2 & 4
	Educ 321 Educ 423	Microteaching Classroom Management Ed 420 below****	2 2
	Art	Art History**	3
	CORE	[Hist 130/140 Western Civilizat	
			3 16
	2nd Semes	ter	
	Educ 422	Teaching Reading in the Sec School	2
	Art 120 Art	Beginning Ceramics Art History**	3
	Art 312	Beginning Printmaking*	3
	Art CORE	Elective [Econ 180 Amer Econ System]	3
	CORE	[Leon 100 Amer Leon System]	17
	Senior Year		
	1st Semeste	er	
	must be co	student teaching. All course v empleted except for professiona	vork I se-
	mester cou	Art History**	3
	Art 490	Senior Exhibit*	2
	Art CORE	Elective [Eng 271/272 English Lit]	6 3
	CORE	[Hist 120 U.S. History]	3
			17
1	2nd Semes		
	Educ 337 Educ 402	Teaching Art in the Sec School Foundations of Educ	2 2
	Educ 432	Critical Issues	2
1	Select one: Educ 412	Individual Curriculum	
	Educ 420	Development (2) Intro to Counseling**** (3)	
1		(Offered at night only. Must be taken the semester prior to	
	Psy 412	student teaching.) Meas & Eval in Educ &	2.2
1	Educ 462	Psychology(2) Student Teaching in Sec School	
	*See Prerec		6-17
	**9 hrs. red	guiredselect from Art 301, 302,	303
	or 304 Art I	History departmental requirement for	or a
	computer a	application course. ental Recommendation	
	After accu	mulating 21 hrs. in art, stud	ents
	should mal	ke application for their Junior Re	view
	The tricin ac		

3	Consult catalog for requirement for Plan A (Art
3	instruction/certification for one of two teaching
5	fields).
_	

For additional information contact: Art Department Head Office: Art Building 303

Phone: 625-9563

Biology

Reynolds Hall 210, 625-9376

Faculty Messick - Head, Adams, Bingman, Gibson, Jackson, Prentice, Schlink, Stebbins, Tillman

Biology, biology education and environmental health technology majors, take a required core of fundamental courses. Requirements to complete these majors allow students to specialize and prepare for graduate school, professional school or specific careers. Support courses in mathematics and the physical sciences supplement courses in the major.

The biology department offers Bio 101, General Biology, to satisfy the Core Curriculum requirement of a biological science course with a laboratory. Bio 121, General Zoology, satisfies the biological science requirement for students in nursing and certain other majors.

Bachelor of Science with a Major in Biology

Semester Hours **Core Curriculum Requirements** (page 35) 51* 39 **Computer Literacy Requirement** determined by the biology department 2-3 **Biology Requirements** General Biology Bio 101 4 Bio 112 Botanical Survey** 3 Bio 122 Zoological Survey** 3 Bio 210 General Physiology** Bio 211 Microbiology* OR Bio 231 Medical Microbiology** Bio 305 Genetics** Seminar** Bio 490 Bio Upper Division Botany 3-4 Elective** Upper Division Zoology Bio Elective** 4-5 Upper Division Bio Environmental Elective* Bio Electives 3-5 25 **Supporting Requirements** Math 140 Algebra and Trig**

OR		
Math 150	Calculus with Analytic	
	Geometry I**	5
Chem 101	General Chemistry I**	5
Chem 102	General Chemistry II**	5
Chem 300	Intro to Modern Órganic	
	Chemistry**	
OR	and the state of t	
Chem 301	Organic Chemistry I**	5
Phys 151	Elem College Physics I**	5
Electives		21-22
	1:	28***

*Required courses in biology, chemistry, mathematics and physics satisfy major requirements and 12 hrs. of the Core Curriculum.

**See Prerequisites

***Must include at least 40 upper division (300 - 400 level) hrs.

Biology majors satisfy the Writing Intensive (WI) requirement by completing Eng 101 and 102 (or their equivalent) and three junior or senior level WI classes, at least one of which must be an upper division course in the major.

Preprofessional students should take Chem 302 and Phys 152. Preveterinary medicine majors must complete Bio 261 Animal Nutrition before the second semester of the senior year.

Bachelor of Science in Education with a Major in Biology

Plan A

One of Two Teaching Fields
See: Minors-Biology Education

Bachelor of Science in Education with a Major in Biology

Plan B Single Teaching Field Semester Hours **Core Curriculum Requirements** 36 (page 35) 51* **Computer Literacy Requirement** determined by the biology department 2-3 **Biology Requirements** 35 Bio 101 General Biology 4 Botanical Survey** Bio 112 3 Bio 122 Zoological Survey** 3 Microbiology** Bio 211 OR Bio 231 Medical Microbiology** 5 Bio 305 Genetics**

Bio 306	Human Physiology and	OR			OR	
DIO 300	Anatomy** 5	Bio 450	Internship in Biology (1	1-8	Bio 402	General Ecology
Bio	Upper Division Biology	DIO 430	hrs.)	1-8	OR	General Leology
DIO	Electives (Bio 499 Problems		1113.)	30-37	Bio 481	Aquatic Ecology 4
	in Biology 2-4 hrs. and Bio			30-37	Geol 110	Intro to Geology (5 hrs.)
	312 Environmental Biology	Minor in	biology (zoology-h	ealth	OR	intro to Geology (5 iiis.)
			emphasis)			Environmental Coolegy (4
	or Bio 402 Ecology 4 hrs.			4	Geol 300	Environmental Geology (4
	are required for	Bio 101	General Biology	4	DI 400	hrs.) 4-5
	certification) 11	Bio 122	Zoological Survey	3	Phys 180	Intro to Meteorology 3
	g Requirements 32-33	Bio 331	Comparative Anatomy			26-27
	Algebra and Trig** 5	Bio 431	Animal Physiology	5	Biology e	ducation majors satisfy the Writ-
	General Chemistry I** 5	Bio 433	Histology (4 hrs.)		ing Inten	sive (WI) requirement by com-
	2 General Chemistry II** 5	OR			nleting En	g 101 and 102 (or their equivalent)
Chem 300	Intro to Modern Organic	Bio 462	Embryology (5 hrs.)	4-5		junior or senior level WI classes,
	Chemistry**	Bio 422	Invertebrate Zoology (5		ne of which must be an upper
OR			hrs.)			
Chem 301	Organic Chemistry I** 5	OR			division C	ourse in the major.
Phys 151	Elem College Physics I 5	Bio 361	Parasitology (4 hrs.)	4-5		
Geol 110	Intro to Geology (5 hrs.)	Bio 499	Problems in Biology	1-3		
OR			0,	26-30	Sugges	sted Orders of Study
Geol 300	Environmental Geology (4		1.1		Bachelor of	
	hrs.) 5-4		n biology (environme	ental	Major Cod	
Phys 180	Intro to Meteorology 3	health e	mphasis)		Biology Ma	
Education	Certification Requirements	Bio 110	General Biology	4		
(page 118)		Bio 231	Medical Microbiology	5	Freshman `	
1 0	144-148	Bio 312	Environmental Biology		1st Semest	
*Required	courses in biology, chemistry,	OR	211110111101110110101010101010101010101		Course	Hours
mathemat	tics, physics and psychology	Bio 370	Environmental Health	4	Bio 101 CORE	General Biology 4 [Eng 101 Comp I] 3
	ajor requirements and 15 hrs. of	Bio 499	Problems in Biology (1		CORE	[HPER 101 Physical Activity] 1
	Curriculum.	DIO 133	hrs.)	3	CORE	[Hist 110 U.S. History] 3
	requisites	AND/OR	1113.)		CORE	[Humanities and Fine Arts] 3
		Bio 450	Internship in Biology (1-8	Psy 120	College Orientation 1
	ducation majors satisfy the	DIO 430	hrs.)	1-8		15
	ntensive (WI) requirement by	Unner Div	vision Biology or Environ			
	ng Eng 101 and 102 (or their	Health Ele		7-9	2nd Semes	ter
	t) and three junior or senior	i lealtii Lie	ctives	21-30	Bio 122	Zoological Survey (Bio 101) 3
level WI c	classes, at least one of which			21-30	Math 140	Algebra and Trig 5
must be a	an upper division course in the	Minor in	n biology (biology		CORE	[Eng 102 Comp II] 3
major.		educatio			CORE	[Comm 100 Oral Comm] 3
				1	CORE	[PSc 120 Gov't: U.S., State, Local]
Envir	onmental Health	Bio 101	General Biology	4		3
Tech	nology	Bio 112	Botanical Survey	3		17
		Bio 122	Zoological Survey	3		
See page	144	Bio 211	Microbiology		Sophomore	
		OR			1st Semest Bio 112	
Minor	s in Biology	Bio 231	Medical Microbiology		Bio 211	Botanical Survey (Bio 101) 3 Microbiology (Bio 101)
Adinor is	a hiology (hotom)	Bio 305	Genetics	4	OR	Wilelobiology (bio 101)
	n biology (botany-	Bio 306	Human Physiology and		Bio 231	Medical Microbiology (Bio 101) 5
norticul	ture emphasis)		Anatomy	5	Chem 101	
	Semester Hours	Bio 499	Problems in Biology	2	CORE	[Econ 180 Amer Econ System] 3
Chem 100	Introductory Chemistry 5			26		16
Bio 101	General Biology 4	Completie	on of the biology adver-	dan!		
Bio 112	Botanical Survey 3		on of the biology education of the biology		2nd Semes	ter
Bio 316	Economic Botany 3		he following courses wil		Bio 305	Genetics (Bio 101) 4
Bio 271	Prin of Plant Propagation 3	the stude	nt for certification in bio	logy for	Bio 210	General Physiology (Rio 112 122

grades 7-12 and is Plan A for the bachelor of

Elem College Physics I

Environmental Biology

science in education:

Phys 151

Bio 312

Math 140 Algebra and Trig

Chem 101 General Chemistry I

Bio 210

Bio 303

5

General Physiology (Bio 112, 122,

Computer Applications in Biology

2-3

15-16

Chem 102)

(consent)

Approved computing course

Chem 102 General Chemistry II (Chem 101) 5

Plants

hrs.)

Prin of Plant Propagation 3

Taxonomy of Flowering

Problems in Biology (1-3

Intro to Entomology

Plant Pathology

Bio 271

Bio 440

Bio 322

Bio 332

Bio 499

School of Arts and Sciences/49

Junior Year		No.	2nd Semes			Bio 306	Human Physiology & Anatomy
1st Semest		Horaly	Bio 122	Zoology Survey (Bio 101)	3	Pio 400	(Bio 121 or consent)
Bio 331	Comparative Vertebrate Anator		CORE	[Eng 102 Comp II]	3	Bio 499	Problems in Biology
	(Bio 122)	5	CORE	[Humanities and Fine Arts]	3	Bio	Electives
	Organic Chemistry I (Chem 10		Math 140	Algebra & Trig	5	CORE	[Econ 180 Amer Econ System]
Phys 151	Elem College Physics I (Math 1	40)	Psy 301	Adolescent Psychology	3 17	CORE	[International Cultural Studies]
CORE	[International Cultural Studies]				.,		
	and the studies he	18	Sophomore	e Year		2nd Semes	
0 10	at boother result to disjurger	1000	1st Semest		1100	Educ 333	Teaching Science in the Sec Sch
2nd Semes			Bio 112	Botanical Survey (Bio 101)	3	Fd., 102	Foundations of Education
Bio 431	Animal Physiology (10 hrs. biology)		Chem 101	General Chemistry I (Math 130 Math 140)	or 5	Educ 402 Educ 432	Foundations of Education Critical Issues
OR	-8//		CORE	[PSc 120 Gov't: U.S., State, Loc	111111111111111111111111111111111111111	Select One	e:
Bio 433	Histology (consent)	- 15	CORE	[1 50 120 001 ti 0101, 5tate, 200	3	Educ 412	Individual Curriculum
OR			CORE	[HPER 101 Physical Activity]	1		Development (2)
Bio 462	Embryology (Bio 331)	4-5	Educ 200	Orientation to Education II	1	Educ 420	Intro to Counseling (3)
Bio 322	Plant Taxonomy	4	Phys 151	Elem College Physics I (Math 14	40)		Offered at night only. Must be
CORE	[Humanities and Fine Arts]	3			5		taken prior to student teaching
CORE	[Humanities and Fine Arts]	3			18	Psy 412	Measurement & Evaluation in
CORE	[Hist 320 U.S. History 1877-						Education & Psychology (2)
	Present]	3	2nd Semes	ster		Educ 462	Student Teaching in Sec School
	in Children and present	17-18		admission to teacher education			1
c			Bio 211	Microbiology (Bio 101)	5	() Prerequi	
Senior Yea			Bio 305	Genetics (Bio 101)	4		ment Recommendation-not ne
1st Semest		2	Bio 303	Computer Applications in Biolo	ogy	sarily in th	is order
Bio 362	Virology (Bio 211 or 231, 305)	3		(consent)	0,	Program n	nust satisfy writing intensive requ
Bio 371	Plant Physiology (Bio 210)	4	OR			ments. (Se	, 0
Bio 490	Seminar (consent)	2	Approved	computing course	2-3		. 0
Bio CORE	Electives	3	Chem 102	General Chemistry II (Chem 10	1) 5		onal information contact:
	[Behavioral Science]	2	Educ 302	[Psy 302] The Exceptional Child	2		e R. Prentice
CORE	[HPER 103 Lifetime Wellness]	15		1	8-19	Phone: 62	eynolds Hall 320
			C C	The Atlanta of the At			
2nd Semes		Ta.	Summer S CORE	[Humanities and Fine Arts]	3	Major Coo	
Bio 402	Ecology (Bio 112, 122)		CORE	[Flumanities and Tine Arts]	,	Premedi	cine
OR Bio 481	Aquatic Ecology (Bio 122)	4	Junior Year			Major Coo	de 7002
Bio 456	Immunology (Bio 211 or 231, 3		1st Semest				
Bio 430	Electives	9		Competencies		Predenti	stry
DIO	Licetives	16	Chem 300	Intro to Modern Organic		Major Coo	de 7005
[] Departm	nent Recommendation		Chem 300	Chemistry (Chem 102)		Preveter	
()Prerequis			OR	, ,			
				Organic Chemistry I (Chem 10)	2) 5		am will also qualify the student for
	nust satisfy Writing Intensive req	uire-	Educ 329	Pedagogical Theory, Methods		bachelor o	of science in biology, major code 0
ments. (Se	e page 35)			Practices	4	Freshman	Year
For addition	onal information contact:		Educ 321	Microteaching	2	1st Semest	
Dr. John N	Messick		Educ 423	Classroom Management	2	Course	Ho
Office: Re	ynolds Hall 215		CORE	[HPER 103 Lifetime Wellness]	2	Bio 101	General Biology
Phone: 62	5-9617	1	Psy 310	Education Psychology	2		General Chemistry I (Math 140)
					17	Math 140	· ·
	of Science in Education					OR	
Major Coc			2nd Seme			Math 150	
	ajor (Plan B)		Bio 402	General Ecology (Bio 112, 122)	4	CORE	[HPER 101 Physical Activity]
Single Tead	ching Field	1	Bio	Electives	5	Psy 120	College Orientation
Freshman	Year	103	CORE	[Humanities and Fine Arts]	3		and the state of t
1st Semest			CORE	[History 320 U.S. History 1877-			
Course		ours		Present]	3	2nd Seme	ster
Bio 101	General Biology	4	Educ 422	Teaching Reading in the Sec		Course	
CORE	[Eng 101 Comp I]	3		School	2	Bio 122	Zoological Survey (Bio 101)
CORE	[Hist 110 U.S. History 1877-				17		General Chemistry II (Chem 10
	Present]	3				CORE	[Psy 100 General Psychology]
	Orientation to Education	1	Senior Yea	r		CORE	[Eng 101 Comp I]
	General Psychology	3	1st Semes		37		
Educ 100 Psy 100	ocheral i sychology			-to-dent tooching All courses	· · aul		
Educ 100 Psy 100 CORE	[Comm 100 Oral Comm]	3		student teaching. All course v			
Psy 100	,	3 1 18		ompleted except for Professiona		Summer S CORE	Semester [Comm 100 Oral Comm]

CORE	[Humanities and Fine Arts] 3	CORE	[International Cultural Studies] 3	2nd Seme	ster
	6	CORE	[Hist 320 U.S. History 1877-	Course	Mi
Sophomor	e Vear	CORE	Present] 3 [PSc 120 Gov't: U.S., State, Local]	Bio 211 Bio 210	Microbiology (Bio 101) 5 General Physiology (Bio 112, 122
1st Semes		CORE	3	DIO 210	and Chem 102)* 4
Course		Math 310	Elem Statistics (Math 130) 3	Bio 303	Computer Applications in Biology
Bio 112	Botanical Survey (Bio 101) 3		16		(consent)
Bio 211	Microbiology (Bio 101) 5	*Prevetering	nary students also must enroll in Ani-	OR	
Phys 151	Elem College Physics I (Math 140)		ion prior to acceptance at the Univer-		computing class 2-3
CODE	5 NIDED 403 11'(1) NI II	sity of Mis	ssouri Veterinary School.	CORE	[Econ 180 Amer Econ System] 3
CORE CORE	[HPER 103 Lifetime Wellness] 2	Students a	also should check with the premed-	CORE	[Hist 110 U.S. History 1877-
CORE	[Eng 102 Comp II] 3		viser about specific professional		Present]* 3
	10	schools. Ir	ndividual schools may have other spe-		17-18
Summer S	Semester	cific requi		Junior Yea	,
Course			nust satisfy Writing Intensive require-	1st Semes	
Bio 306	Human Physiology and Anatomy	ments. (Se	ee page 35)	Course	
	(Bio 121 or consent) 5	[] Departn	nent Recommendation	Phys 151	Elem College Physics I (Math 140)*
CORE	[Hist 110 U.S. History 1877-	() Prerequ			5
0 10	Present] 3	For addition	onal information contact:	Chem 301	Organic Chemistry I (Chem 102)*
2nd Seme	ster		e R. Prentice (Premedicine)	D: 100	5
Course Bio 305	Genetics (Bio 101) 4		eynolds Hall 320	Bio 433	Histology (consent) 4
Phys 152	Genetics (Bio 101) 4 Elem Physics II (Phys 151) 3	Phone: 62		Psy 300	Child Development
Bio 303	Computer Applications in Biology			OR Psy 301	Adolescent Psychology 3
2.0 303	(consent)		Schlink (Preveterinary)	1 Sy 301	Adolescent Psychology 3
OR	,,	Phone: 62	eynolds Hall 313B		"
Approved	computing class 2-3	THORIE. 02	3-37-04	2nd Seme	ster
Bio 210	General Physiology (Bio 122 &		Tillman (Predental)	Course	
	Chem 102) 4		eynolds Hall 317D	Phys 152	Elem College Physics II (Phys 151)*
CORE	[Humanities and Fine Arts] 3	Phone: 62	5-9698		3
	16-17	Major Cod	de 7006		Organic Chemistry II (Chem 301) 5
Junior Yea		Preopto		Bio 318	Cell Biology (consent) (4)
1st Semes				OR Pio 456	Immunology (Pio 211 or 221 8 205)
Course			am also will qualify the student for the	Bio 456	Immunology (Bio 211 or 231 & 305) (3) 4-3
Bio 331	Comparative Anatomy (Bio 122) 5	bachelor o	of science in biology.	Math 310	Elem Statistics*
Chem 301	Organic Chemistry I (Chem 102) 5	Freshman	Year	CORE	[Humanities and Fine Arts] 3
CORE	[Econ 180 Amer Econ System] 3	1st Semes	ter		17-18
CORE	[Humanities and Fine Arts] 3	Course	Hours		
	16	Bio 101	General Biology* 4	Senior Yea	
2nd Compa	atou		General Chemistry I (Math 140)* 5	1st Semes	ter
2nd Seme Course	ster	Math 140	Algebra & Trig 5	Course	F
Bio 318	Cell Biology (consent) (4)	Psy 120 CORE	College Orientation 1 [HPER 101 Physical Activity] 1	Bio 316	Economic Botany (Bio 112) 3
OR	cen biology (consent) (4)	CORL	16	Bio 431	Animal Physiology (10 hrs.
Bio 456	Immunology (Bio 211 or 231, 305)		10	Bio 490	biology) 5 Seminar 1
	(3) 4-3	2nd Seme	ster	CORE	[International Cultural Studies] 3
Chem 302	Organic Chemistry II (Chem 301) 5	Course		CORE	[Hist 320 U.S. History 1877-
Bio 462	Embryology (Bio 331) 5	Bio 122	Zoological Survey (Bio 101) 3		Present] 3
	13-14	Chem 102	General Chemistry II (Chem 101)*	CORE	[PSc 120 Gov't: U.S., State, Local]
C: V		0005	5		3
Senior Yea		CORE	[Eng 101 Comp I]* 3		18
1st Semest Course	ter	CORE CORE	[Psy 100 General Psychology]* 3	2-16	. I printage along
Bio 316	Economic Botany (Bio 112) 3	CORE	[Comm 100 Oral Comm]* 3	2nd Seme	ster
Bio 431	Animal Physiology (10 hrs.		1/	Course Bio 402	Ceneral Ecology (Rio 112, 122)
	biology) (5)	Sophomor	e Year	OR	General Ecology (Bio 112, 122)
OR		1st Semes		Bio 312	Environmental Biology (consent) 4
Bio 433	Histology (consent) (4) 5-4	Course		Bio 306	Human Physiology and Anatomy
Bio 490	Seminar (consent) 1	Bio 112	Botanical Survey (Bio 101)* 3		(Bio 121 or consent) 5
Chem 201	, , , , , , , , , , , , , , , , , , , ,	Bio 305	Genetics (Bio 101) 4	Electives	3
	13-14	CORE	[Eng 102 Comp II]*	CORE	[Humanities and Fine Arts] 6
2nd Seme	stor	Math 150	Calculus with Analytic Geometry	*1	18
Course	SICI CONTRACTOR OF THE PROPERTY OF THE PROPERT	CORE	(Math 140)* 5 [HPER 103 Lifetime Wellness] 2		courses which satisfy minimum re-
Bio 402	General Ecology (Bio 112, 122) 4	CORL	[HPER 103 Lifetime Wellness] 2		s for admission into Optometry oplication may be made with 90 se-
	G/ \//		·	Jenoon A	Spiredion may be made with 90 se-

Chemistry

mester hours. Strong preference is given to applicants who hold the bachelor's degree.

[] Department Recommendation

() Prerequisite

Program must satisfy Writing Intensive requirements. (See page 35)

For additional information contact: Dr. E. Sam Gibson (Preoptometry)

Office: Reynolds Hall 317C

Phone: 625-9699

Major Code 7003
Prephysical Therapy

For Transfer to University of Missouri - Columbia

Freshman Year

1st Semester Course Hours CORE [Eng 101 Comp I] 3 Math 140 Algebra & Trig 5 Bio 121 General Zoology 4 CORE [Psy 100 General Psychology] 3 Psy 120 College Orientation 16

2nd Semester

Course
CORE [Eng 102 Comp II]
Psy 311 Applied Statistics-Behavioral &
Natural Science
CORE [PSc 120 Gov't: U.S., State, Local]

Chem 101 General Chemistry I (Math 140) CORE [Comm 100 Oral Comm]

Sophomore Year 1st Semester

Course
Phys 151 Elem College Physics 5
Psy 221 Psychology of Personal Adjustment

CORE [Humanities and Fine Arts] 3
Chem 102 General Chemistry II (Chem 101) 5

[Lifetime Wellness]

2nd Semester

HPFR 103

Course
Bio 210 General Physiology (Bio 121, Chem 102)

CORE [Humanities and Fine Arts] 6
CORE [HPER 101 Physical Activity] 1
Phys 152 Elem College Physics II (Phys 151)

Soc Sci Elective 3

Residents of Missouri usually apply for admission to the Physical Therapy School, University of Missouri-Columbia or other physical therapy schools within the state. Residents of other states should consult with Mr. Tillman, department of biology, as individual schools of physical therapy may require different prerequisites. Completion of the above course does not auto-

matically admit an applicant into the physical therapy program at the University of Missouri.

() Prerequisites

[] Department Recommendations

An associate of arts degree may be awarded if one of the Humanities electives is a literature course.

For additional information contact:

Mr. David Tillman

Office: Reynolds Hall 317D

Phone: 625-9698

Major Code 7001

Preagriculture

Major Code 7007

Prepharmacy

Preagriculture and prepharmacy programs at Missouri Southern are designed to match the plans of individual students.

For more information contact: Dr. Gerald Schlink (Preagriculture) Office: Reynolds Hall 313B

Phone: 625-9764

Dr. John Messick (Prepharmacy) Office: Revnolds Hall 215

Phone: 625-9617

3

3

5

3

17

18

17

Chemistry

Reynolds Hall 210, 625-9376

Faculty Baiamonte - Head, Albright, Kash, Malzahn, Mosher, Whittle

Chemistry graduates will find an impressive array of options and exciting opportunities in fields such as basic research, environmental protection, instrumentation, new product and process development, technical marketing, market research, forensic chemistry, teaching at all levels and information science. Moreover, an education in chemistry is valuable in health sciences such as medicine, pharmacology, clinical chemistry and industrial hygiene. The first step into a future in chemistry is a formal education. Since chemistry is such a broad field and holds diverse career opportunities, students should plan their education with a goal in mind.

Bachelor of Arts with a Major in Chemistry

Semester Hours

Semester 11	Ours
Core Curriculum Requirements	
(page 35) 51*	43
Foreign Language (four courses in one	
language)	12
Chemistry Requirements	28
Chem 101 General Chemistry I**	5

Chem 102 General Chemistry II** 5
Chem 201 Analytical Chemistry I** 5
Chem 300 Intro to Modern Organic
Chemistry (5 hrs.)
and Upper Division
Chemistry Electives (8
hrs.) excluding Chem 301

OR

Chem 301 Organic Chemistry I (5 hrs.), Chem 302 Organic Chemistry II (5 hrs.), Upper Division Chemistry Electives (3 hrs.) excluding Chem 300**

and Chem 302**

Comp 200 Advanced Personal Computing with Graphics

Electives 29 128***

*Required chemistry, physics and mathematics courses satisfy major requirements and 8 hours of the Core Curriculum.

**See Prerequisites

***Must include at least 40 upper division (300 - 400 level) hours.

Note: A bachelor of arts degree in chemistry is for students who need some knowledge of chemistry as a basis for work in other fields but who do not expect to become professional chemists.

Bachelor of Science with a Major in Chemistry

Semester Hours

Core Curri	culum Requirements				
(page 35) 51*					
	Requirements	33			
Chem 101	General Chemistry I**	5			
Chem 102	General Chemistry II**	5			
Chem 201	Analytical Chemistry I**	5			
Chem 301	Organic Chemistry I**	5			
Chem 302	Organic Chemistry II**	5			
Chem 401	Physical Chemistry I**	4			
Chem 402	Physical Chemistry II**	4			
Supporting	Requirements	23			
Phys 250	General Physics I**	5			
Phys 260	General Physics II**	5			
Math 150	Calculus with Analytic				
	Geometry I**	5			

Chemistry

Math 250	Calculus with Analytic			or of Science in		Freshman \		
	Geometry II**	5	Educati	on with a Major i	n	1st Semeste Course	er Hou	urs
Comp 115 OR	Computing I		Chemis				General Chemistry I (Algebra & Trig)	5
Comp 200	Advanced Personal Computing with Graphic	S	Plan B	Single Teaching Field Semester F		Math 140	Algebra & Trig OR (Math 150 Calculus I)	5
		3	Core Currie	culum Requirements		CORE	[Eng 101 Comp I]	3
Electives**	*	29	(page 35) 5		36	CORE	[HPER 103 Lifetime Wellness]	2
		8****	Chemistry	Requirements	35	Psy 120	College Orientation	1
*Required	chemistry, physics and m	athe-		General Chemistry I**	5			16
matics cou	rses satisfy major requiren	nents		General Chemistry II**	5	2nd Semes	ter	
and 8 hour	rs of the Core Curriculum.			Analytical Chemistry I**	5	Chem 102	General Chemistry II (Chem 101	
See Prer			Chem 301	Organic Chemistry I	5	CORE	[Eng 102 Comp II]	3
	ted Electives (Chem 421, C		Chem 302	Organic Chemistry II**	5	CORE	[Hist 110 U.S. History]	3
	472, Math 260, Math 322,	Phys	Chem 351	Biochemistry**	4	Electives	(Second area of concentration) Computing I	3
372, Phys 3			Chem 401	Physical Chemistry I**	4	Comp 113	Computing	17
	nclude at least 40 upper div	/ISION		Problems Laboratory	2			
(300 - 400	evel) hours.		Supporting	Requirements	31	Sophomore		
			Phys 250	General Physics I**	5	1st Semest		2)
Bachel	or of Science in		Phys 260	General Physics II**	5	OR	Organic Chemistry I* (Chem 10)	2)
Educati	ion with a Major i	n	Math 150	Calculus with Analytical			Analytical Chem I (Chem 102)	5
Chemis				Geometry I**	5	Phys 151	Elem College Physics I (Math 14	0)
Circinis	ser y		Math 250	Calculus with Analytical	_	,		5
Plan A			6 1000	Geometry II**	5	CORE	[HPER 101 Physical Activities]	1
	of Two Teaching Field	s	Geol 300	Environmental Geology*	4	Electives	(Second area of concentration)	5
One			Bio 101	General Biology	4			16
	Semester l	Hours	Comp 115	Computing I (in place of Educ 401)		2nd Seme	ster	
	culum Requirements	36	OR	Educ 401)			Organic Chemistry II* (Chem 30	01)
(page 35)		27		Advanced Personal		OR	1	
	Requirements General Chemistry I**	5	Comp 200	Computing with Graphic	rs	Chem 300	Intro to Modern Organic Chemistry (Chem 102)	5
	General Chemistry II**	5		Companie with Grapino	3	Phys 152	Elem College Physics II (Phys 15	
	Analytical Chemistry I**	5	Education	Certification Requirements		11173 132	Liem conege mysics in (mys is	5
	Organic Chemistry I**	5	(page 118)	certification nequirement	39	CORE	[PSc 120 Gov't: U.S., State, Local	al]
	Organic Chemistry II**	5	(page 110)		141			3
	Problems Laboratory	2	*Required	chemistry, physics,		Electives	(Second area of concentration)	5
	g Requirements	21	mathemat	ics, psychology and biolog	gy			18
Phys 151	Elementary College Phys	ics	courses sa	itisfy major requirements	and	Junior Yea	r	
,	**	5	15 hours o	of the Core Curriculum.		1st Semes		
Math 140	Algebra and		**See Prei	requisites			Analytical Chemistry I (Chem 1	02)
	Trigonometry**	5				OR	[Upper Division Elective]	1 5
Geol 300	Environmental Geology	4	Minor	in Chemistry		Chem Foreign La		4-5
Bio 101	General Biology	4		Semester	Hours	CORE	[Comm 100 Oral Comm]	3
Comp 115	Computing I (in place of			General Chemistry I*	5	CORE	[Humanities and Fine Arts]	3
	Educ 401)			General Chemistry II*	5	CORE	[Econ 180 Amer Econ System]	3
OR			Chem Ele	ctives** (Excluding Chem	The last		10	6-17
Comp 200	Advanced Personal			100, Chem 298, Chem 4		2nd Seme	ster	
	Computing with Graphic			and Chem 499, 6 electiv		Chem	[Upper Division Elective]	4
-1	6	3		must be upper division)		Foreign La		3
	Certification Requirements		+6 5		18	CORE	[Psy 100 or Soc 110]	3
(page 118)		39	*See Prere			CORE	[Bio 101 General Biology]	4
	aching Field (some fields e			00 and Chem 301 cannot l		CORE	[Humanities and Fine Arts]	3
30 hours)		30 153***		ther to satisfy the 8hour re	e-			17
*Doguiros			quiremen			Senior Yea	ar	
	d chemistry, physics, math					1st Semes		
	hology and biology courses		Sugge	sted Orders of Stu	dv	CORE	[Humanities and Fine Arts]	3
	requirements and 15 hours	or the	00			Foreign La		3
	ilcuiuiii.		Bachelor of	Arts		CORE	[International Cultural Studies])
Core Curi			Major Cod			Electives		6

Chemistry

2nd Seme	ester		Chem 20	1 Analytical Chemistry I (Chem	102)	2nd Seme	ster	
Foreign La	0 0	3		All and the Wile of the	5		General Chemistry II (Chem 1	01) 5
CORE	[Hist 120 or Hist 320 U.S. Histo	/ -	CORE	[Comm 100 Oral Comm]	3	Math 250	Calculus II (Math 150)	5
Electives		3 6-7	CORE	[HPER 103 Lifetime Wellness] [Hist 110 U.S. History]	2 3	CORE Psy 100	[Eng 102 Comp II]	3
210011100	1	2-13	CORL	[First Fig O.S. Firstory]	17	CORE	General Psychology [HPER 103 Lifetime Wellness]	3 2
Student r	may select either Chem 300 plu	us 8					The second second ventures of	18
	upper division chemistry (excluding		2nd Seme			Sanhamar	o Voca	
Chem 30°	1 and Chem 302) or Chem 301	and	OR Chem 402	Physical Chemistry II (Chem	401)	Sophomore 1st Semest		
	plus 3 hours of upper division ch	em-	Elective	[Chem 472 Organic Qualitativ	ve		Organic Chemistry I (Chem 10	02)-
	ives (excluding Chem 300).			Analysis] (Chem 302)	4	DI OFF	fall only	5
() Prerequ		1005	Elective	[Chem 421 Analytical Chemis	,	Phys 250 Bio 101	General Physics I (Math 150) General Biology	5
	nent Recommendation		CORE	(Chem 210) [Humanities and Fine Arts]	5	OR	General biology	
	onal information contact:		CORE	[Bio 101 General Biology]	4	Geol 300	Environmental Geology-fall onl	ly 4
	n Baiamonte eynolds Hall 213	Be.		2	16	Educ 200	Orientation to Education II	1
Phone: 62								18
Bachelor o	of Science		Senior Year 1st Semes			2nd Semes		
Major Cod		Fa. N		Physical Chemistry I (Math 25	50		admission to Teacher Education.	0.41
Chemistry		P. A.		Phys 260)	,	Chem 302	Organic Chemistry II (Chem 3) spring only	5
Freshman	Year		OR			Phys 260	General Physics II (Phys 250)	5
1st Semes			Elective	[Chem 422 Advanced Inorgan Chemistry]	iic 4	CÓRE	[PSc 120 Gov't: U.S., State, Loc	cal]
Course		ours		(Chem 102, Math 250)	4	CORE	[Foon 190 Amon Foon Customs]	3
Chem 101	General Chemistry I (Algebra &		Elective	[Chem 499 Independent Study	y] 1	Psy 301	[Econ 180 Amer Econ System] Adolescent Psychology	3
Math 150	Trig) Calculus I	5	CORE	[Humanities and Fine Arts]	3	Educ/Psy	The Exceptional Child	2
CORE	[Eng 101 Comp I]	3	CORE CORE	[Hist 120 or 320 U.S. History] [International Cultural Studies	3	302		
	Computing I	3	COILE	international Cultural Studies	14			18
Psy 120	College Orientation	1 17				Junior Year		
	the particular and the con-	.,	2nd Seme		104	1st Semeste		
2nd Semes	ster General Chemistry II (Chem 10'	1) [OR 402	Physical Chemistry II (Chem 4	401)	Chem 401	Physical Chemistry I (Math 250 Phys 260)-fall only	,
Math 250	Calculus II (Math 150)	5	Elective	[Chem 472 Organic Qualitativ	'e	OR	Thys 200/-tail Only	
CORE	[Eng 102 Comp II]	3		Analysis] (Chem 302)	4	Chem 351	Biochemistry (Chem 302)-fall o	nly
CORE	[HPER 101 Physical Activity]	1	Elective	[Chem 499 Independent Study		Cham 201	Analytical Chamistan Cill and	4
CORE	[Psy 100 or Soc 110]	3 17	Elective	[Phys 372 Electronic Circuits] (260)	Phys 4	Geol 300	Analytical Chemistry-fall only Environmental Geology-fall only	5
		1	CORE	[Humanities and Fine Arts]	3	OR	zwierwie Georgy fan om	,
Sophomore					13	Bio 101	General Biology	4
1st Semest	er Organic Chemistry I (Chem 102		() Prerequi	sites		Psy 310 CORE	Educational Psychology (Psy 10 [Humanities and Fine Arts]	0) 2
Phys 250	General Physics (Math 150)	5	[] Departm	nent Recommendation		CORE	[Framarities and Time Arts]	18
Elective	[Math 260 Calculus III] (Math 25		For addition	onal information contact:		2 10		
CORE	IDC - 400 C - 4 11 C C	5	Dr. Vernor	Baiamonte		2nd Semes Pass Media	Competencies	
CORE	[PSc 120 Gov't: U.S., State, Local	3	Office: Re Phone: 62	ynolds Hall 213		Chem 499	Problems Laboratory	2
		18	rnone: 62.	5-9341		CORE	[Humanities and Fine Arts]	3
2nd Semes	ter			f Science in Education		CORE Educ 329	[Hist 110 U.S. History] Pedagogical Theory, Methods &	3
	Organic Chemistry (Chem 301)	5	Major Coo			Edde 323	Practices	4
Phys 260	General Physics II (Phys 250)	5	Chemistry	Major (Plan B)		Educ 321	Microteaching	2
Elective	[Math 322 Differential Equations	-	Single Teac	ching Field		Educ 423 Educ 422	Classroom Management	2
CORE	(Math 260) [Econ 180 Amer Econ System]	3	Freshman '	Year		Educ 422	Teaching Reading in the Sec School	2
	[Leon 100 / uner Leon System]	16	1st Semest					18
Junior Year			Course		lours	Sonier Va-		
1st Semest		H	Chem 101	General Chemistry I (Algebra a Trig)	5	Senior Year 1st Semeste		
	Physical Chemistry I (Math 250,		Math 150	Calculus I	5		student teaching. All course w	vork
OP	Phys 260)		and the late of th	Computing I	3		mpleted except for Professional	Se-
OR Elective	[Chem 422 Advanced Inorganic		CORE Psy 120	[Eng 101 Comp I] College Orientation	3	Chem 401	Physical Chemistry I (Math 250)	
	Chemistry]	4	Educ 100	Orientation to Education I	1	CHCIII 401	Phys 260)-fall only	'
	(Chem 102, Math 250)	The state of			18	OR	the second	

Communications

Chem 351	Biochemistry	(Chem 30	2)-fall only
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		-
CORE	[Humanities and Fine Arts]	3
CORE	[International Cultural Studies]	3
CORE	[Hist 120 or 320 U.S. History]	3
CORE	[HPER 101 Physical Activities]	1
CORE	[Comm 100 Oral Comm]	3
		17

2nd Semester

Educ 333	Teaching Science in Sec Schools	3
Educ 402	Foundations of Education	2
Educ 432	Critical Issues	2
Educ 462	Student Teaching Sec 8 Select	
	One:	2-3
Educ 412	Individual Curriculum	
	Development (2)	
Educ 420	Intro to Counseling (3)	
Psy 412	Measurement and Evaluation in	

Education and Psychology (2)

() Prerequisites [] Department Recommendation

For additional information contact:

Dr. Vernon Baiamonte Office: Reynolds Hall 213 Phone: 625-9541

Communications

MSTV Building, 625-9580

Massa - Head, Bodon, Capps, **Faculty** Caristi, Carney, Clark, Crawford, Cummings, Delaney, McKinney, Merriam, Peterson, Stebbins, Taylor, Yocum

A major in communications offers an array of career opportunities in such fields as public communication, television, radio and journalism. In the education process, emphasis is placed on speaking and writing skills as well as gaining technical knowledge related to mass media production and publication. A major in communications is one of the most diversified areas of study available to students who wish to excel in business, industry, government or education at the local, state, national and international levels. Missouri Southern graduates in communications have found successful careers in the media, in government, in education and in a variety of public relations positions for hospitals, state and national associations, in retailing and in industry.

Students pursuing a bachelor of arts degree in communications have two options. Option I, speech communication, examines the role of human communication in social, organizational, political and cultural interactions. This option places a balanced focus on the theory and practice of communicating. Special emphasis includes identifying the antecedents of communication, its form and content and its conseguences. Option II, mass communications, offers students the necessary abilities in planning, preparing and producing programs in electronic media and/or designing and writing for journalism. This option emphasizes the technical skills, creativity and demand for understanding target audiences in mass media. Students gain handson experience in television, radio and print laboratories, each outfitted with state-ofthe-art equipment. Also available is a bachelor of science degree in education with a teaching emphasis in speech communication and theatre.

The communications department oversees the student operations of Missouri Southern Television with its cable service MSTV and its community station K57DR, in addition to the available media training through PBS-affiliated KOZJ in Joplin. The department also manages KXMS, a 24 hour-a-day classical radio station operated by students and community volunteers. Perhaps the most widely recognized contribution of the communications department is The Chart, a student operated college newspaper published once a week. Additionally, the department publishes the Crossroads yearbook.

Students also have opportunities to participate in other communications sponsored activities. The debate and forensics program offers students the chance to develop their critical thinking skills and to participate in events such as informative, persuasive and extemporaneous speaking competitions. Debate and forensics students may join the forensic honor society of Pi Kappa Delta. Communications majors interested in mass media may join Southern's chapter of the national broadcast fraternity of Alpha Epsilon Rho and participate in its state, regional and national conventions. The department also sponsors the Modern Communications Club which plans on-campus events and off-campus field trips for students interested in communications activities. The club expands the scope of communications to include foreign language speakers.

Internships are encouraged for communications majors. These internships allow students to gain work experience in occupational positions they may wish to pursue. Students work under the joint supervision of a faculty member and a representative of the organization providing the intern expe-

The communications curriculum acknowledges the diversity and interconnectedness among peoples, promotes an understanding of human values and prepares its students for leadership in a competitive

Core Curriculum requirements for all students of the College include Comm 100, Oral Communication.

Bachelor of Arts with a Major in Communications

Option I:

Speech Communication

Semester F	Hours
ulum Requirements	
	51
iteracy Requirement:	
	ions
and Management	3
guage (four courses in on-	e
	12**
ations Requirements	47
Introduction to Human	
Communication	3
Voice and Diction	3
Interpersonal	
Communication*	3
Organizational	
Communication*	3
Political and Social	
Communication*	3
	dions Requirements Introduction to Human Communication Voice and Diction Interpersonal Communication* Organizational Communication* Political and Social

Comm 420 Mass Communications

Comm 492 Communication Issues*

Theory*

Communication Electives

*See Prerequisites

Electives

language)

**A proficiency level of "Intermediate Plus" is required.

***Must include at least 40 upper division (300-400 level) hours.

Bachelor of Arts with a Major in Communications

Option II: Mass Communications

Semester Hours

26

128***

15

Core Curriculum Requirements (page 35) **Computer Literacy Requirement: CIS 305 Microcomputer Applications** and Management Foreign Language (four courses in one

Communications

School of Arts and Sciences/55

Communications Requirements	50	Th 332 History of Theatre 3	Mass Communications Option
Comm 101 Intro to Human		Th 351 Directing** 3	Broadcast Emphasis
Communication	3	Electives in Communications and/or	Freshman Year
Comm 111 Newswriting 3		Theatre 11***	1st Semester Course Hours
Comm 215 Interpersonal		Electives 3	Course Hours Foreign Language 3
Communication	3	Education Certification Requirements	CORE [Eng 101 Comp I] 3
Comm 220 Practicum in		(page 118) 40-41**** 38-39	CORE [Comm 100 Oral Comm] 3
Communications*	2	131-132	Comm 101 Intro to Human Comm 3
(Student must select tw	0	*Required course in psychology counts 3	Comm 111 Newswriting 3
different activities.)	To Table	hours toward core curriculum require-	Psy 120 College Orientation 1
Comm 310 Communication Law	3	ments, Area 3C.	16
Comm 325 Broadcast News		**See Prerequisites	2-16
Reporting*	3	***Must be approved in advance by the	2nd Semester Foreign Language 3
Comm 330 Advanced		student's adviser who must be selected	CORE [Eng 102 Comp II] 3
Communications		from either the area of speech communica-	CORE [HPER 103 Lifetime Wellness] 2
Practicum*	1	tion or theatre.	CORE [Econ 180 Amer Econ System] 3
Comm 420 Mass Communications		****Two credit hours are satisfied by Educ	Comm 130 Intro to Broadcasting 3
Theory*	3	401.	Comm 131 Voice and Diction 3
Comm 492 Communication Issues*	3	1011	17
Communication Electives	23	Minor in Mass	Carlana Van
Electives	15	Communication	Sophomore Year
Electives	128***		1st Semester Foreign Language 3
*See Prerequisites	120	Semester Hours	CORE [HPER 101 Physical Activity] 1
**A proficiency level of "Intermediate	Plus"	Comm 111 Newswriting 3	CORE [Humanities and Fine Arts] 3
	Tius	Comm 310 Communication law 3	Comm 215 Interpersonal Comm 3
is required.	ivicion	Comm 325 Broadcast News Reporting	Comm 200 Radio Production
***Must include at least 40 upper d (300 - 400 level) hours. Courses num	borod	3	OR
300 and above in history, political so	ionco	Communications electives* 9	Comm 201 TV Production 3
		18	Comm 220 Practicum In Comm 1
sociology, business and psychology a	ie iec-	*Electives must be above the 100 level and	Electives 3
ommended.		must be chosen in consultation with an	1/
Bachelor of Science in		adviser from the communications depart-	2nd Semester
		ment. A student may emphasize either the	Foreign Language 3
Education with a Major	ın .	print or broadcast media.	CORE [Humanities and Fine Arts] 3
Speech Communication	and	The state of the s	Comm 200 Radio Production
Theatre		Minor in Speech	OR
DI D Cinala Tanahina E	ald	Communication	Comm 201 TV Production 3
Plan B Single Teaching F			Comm 220 Practicum in Comm 1
Semester	Hours	Semester Hours	CORE [Math 110 Intro to College Math] 3 Flectives 3-5
Core Curriculum Requirements		Comm 100 Oral Communication* 3	Electives 3-5 16-18
(page 35) 51*	48	Comm 214 Interpersonal	10.10
Computer Literacy Requirement:		Communication 3	Junior Year
Educ 401 Use of Computer Softw		Comm 304 Small Group	1st Semester
the Classroom	2	Communication 3	CIS 305 Microcomputer Applications &
Communications Requirements	12	Comm 306 Persuasion 3	Management 3
Comm 101 Intro to Human		Comm 307 Professional Interviewing 3	CORE [Humanities and Fine Arts] 3 CORE [Biology] 4
Communication	3	Comm 401 Nonverbal Communication	CORE [Biology] 4 Comm 324 Advanced TV Production 3
Comm 215 Interpersonal		3	Comm 325 Broadcast News Reporting 3
Communication**	3	18	16
Comm 304 Small Group		This minor is designed especially for those	
Communication**	3	individuals who will be entering business,	2nd Semester
Comm 315 Argumentation and		industry, education or any field calling for	CORE [Phys 100 Fund of Phys Sci] 5
Debate**	3	"superior communication skills."	CORE [Psy 100 or Soc 110] 3
Theatre Requirements	17	*Meets Core Curriculum requirement.	Comm 310 Comm Law 3 Comm 402 Broadcast Programming 3
Th 121, 122, 221, or 222Theatre		Meets Core Curriculum requirement.	COMMITTOE BIOGRAPHIC TO BE A STATE OF THE ST
Laboratory	2		Comm 301 Broadcast and Cable Management
Th 142 Theatre Technology	2 3 3	6 1 10-1	17
Th 212 Oral Interpretation		Suggested Orders of Study	
Th 241 Acting I	3	Bachelor of Arts	Senior Year
Th 331 History of Theatre (W.)	.)	Major Code 0600	1st Semester
OR		Communications Major	CORE [Hist 110 U.S. History] 3
OK		,	

Communications

CORE [PSc 120 Gov't., U.S., State, Local]	Comm	Elective	3	2nd Semester
322.44.6	CORE	[PSc 120 Gov't. U.S., State, Loc		Foreign Language 3
Comm 330 Adv Comm Practicum 2			3	CORE [Eng 102 Comp II] 3
CORE [Comm 305 Intercultural Comm] 3	Elective		2-3	CORE [HPER 103 Lifetime Wellness] 2
Comm Elective (upper division) 3		1	7-18	CORE [Econ 180 Amer Econ System] 3
Elective (Upper division) 3				Comm 131 Voice and Diction 3
17	Junior Ye	and the second second second second		Comm Elective 3
17				
and Composter	1st Seme			17
2nd Semester	CIS 305	Microcomputer Applications &		
CORE [Hist 320 U.S. History] 3		Management	3	Sophomore Year
Comm 420 Mass Comm Theory 3	CORE	[Humanities and Fine Arts]	3	1st Semester
Comm 492 Comm Issues 3	CORE	[Biology]	4	Foreign Language 3
Electives (upper division) 5		25 Broadcast News Reporting	3	CORE [HPER 101 Physical Activity] 1
14	Commin 32	o Adv Company		CORE [Hereavities and Fig. A. 1.]
		30 Adv Comm Practicum	2	CORE [Humanities and Fine Arts] 3
Electives should be chosen in consultation with	Elective	[upper division]	2	Comm 215 Interpersonal Comm 3
the adviser to meet desired career goals. Courses			17	Comm Elective 3
in history, business, political science, sociology,				Elective 3
psychology, art and theatre all may be appropri-	2nd Seme	ester		19
ate.	CORE		2	
		[Humanities and Fine Arts]	3	2nd Compater
[] Department Recommendation	CORE	[Phys 100 Fund of Phys Sci]	5	2nd Semester
	CORE	[Hist 110 U.S. History]	3	Foreign Language 3
For additional information contact:	Comm 3°	0 Comm Law	3	CORE [Humanities and Fine Arts] 3
Mr. Richard W. Massa	Comm	Elective (upper division)	3	CORE [PSc 120 Gov't: U.S., State, Local]
Office: MSTV		(apper division)	17	3
			1/	
Phone: 625-9372				Comm Elective 3
0.1.1. (4.)	Senior Ye	ar		Electives 6
Bachelor of Arts	1st Semes	ster		18
Major Code 0600	CORE	[Hist 320 U.S. History]	3	
Communications Major	Comm	Electives [upper -division]	8	Junior Year
				1st Semester
Mass Communications Option	Electives	[upper division]	4	
Newspaper Emphasis			15	
Freshman Year	2nd Seme	ester		Management 3
	Comm 47	0 Mass Comm Theory	3	CORE [Humanities and Fine Arts] 3
1st Semester	CORE	[Comm 305 Intercultural Comm		CORE [Biology] 4
Course				Comm 300 Organizational Comm 3
Foreign Language 3		2 Comm Issues	3	
CORE [Eng 101 Comp I] 3	Electives	(upper division)	4	
CORE [Comm 100 Oral Comm] 3			13	16
Comm 101 Intro to Human Comm 3	Electives	in communications should be cho	sen	
		ation with the adviser to meet des		2nd Semester
Comm 111 Newswriting 3		als. Other electives should be cho		CORE [Phys 100 Fund of Phys Sci] 5
Psy 120 College Orientation 1	in an area	als. Other electives should be cho	sen	CORE [Psy 100 or Soc 110] 3
16		of minor concentration or in a sup		
	tive role	to career goals. Courses in hist	ory,	71
2nd Semester	business,	political science, sociology and	DSV-	Comm 411 Political and Social Comm 3
		re strongly recommended.	,	Comm Elective (upper division) 3
Foreign Language 3	07	8 /		17
CORE [Eng 102 Comp II] 3	[] Depart	ment Recommendation		
CORE [Math 110 Intro to College Math] 3				Senior Year
CORE [HPER 101 Physical Activity] 1	For additi	onal information contact:		1st Semester
Comm 220 Practicum in Comm 3	Mr. Richa	rd W. Massa		
Elective 3	Office: N	ISTV		CORE [Hist 320 U.S. History] 3
	Phone: 62			Comm Electives (upper division) 9
16				Elective (upper division) 3
	Bachelor	of Arts		15
Sophomore Year				15
1st Semester	Major Co			2nd Samostar
CORE [HPER 103 Lifetime Wellness] 2	Communi	cations Major		2nd Semester
Zero zero zero zero zero zero zero zero z				Comm 420 Mass Comm Theory 3
		omm Option		CORE [Comm 305 Intercultural Comm] 3
Foreign Language 3	Freshman	Year		Comm Electives (upper division) 6
Comm 215 Interpersonal Comm 3	1st Semes	ter		Comm 492 Comm Issues 3
Comm 220 Practicum in Comm 1	Course		ours	15
Comm Electives [Comm 231 Feature	Foreign La			
Writing] 3-4			3	Electives should be selected in consultation with
_	CORE	[Eng 101 Comp I]	3	the adviser to meet desired career goals.
15-16	CORE	[Comm 100 Oral Comm]	3	[] Department Resemble
	CORE	[Math 110 Intro to College Math	1] 3	[] Department Recommendation
2nd Semester	Psy 120	College Orientation	1	For additional information contact:
Foreign Language 3		1 Intro to Human Comm		
		muo to Human Comm	3	Mr. Richard W. Massa
	Elective		3	Office: MSTV
CORE [Psy 100 or Soc 110] 3			16	Phone: 625-9372

English

Bachelor of Science in Education Major Code 0844 Speech-Theatre Major (Plan B) Single Teaching Field Freshman Year 1st Semester Course Hours Comm 101 Intro to Human Comm [Comm 100 Oral Comm] 3 CORF CORE [Eng 101 Comp I] [Math 110 Intro to College Math] 3 CORF [Biology] CORE College Orientation Psv 120 Educ 100 Orientation to Education 18 2nd Semester Psy 100 General Psychology 3 6 Comm Electives Th 142 Theatre Technology 3 CORE [Eng 102 Comp II] 3 CORE [Humanities and Fine Arts] 3 18 Sophomore Year 1st Semester 2 Educ 302 The Exceptional Child Comm 215 Interpersonal Comm Psy 301 Adolescent Psychology 3 3 Th 241 Acting I CORE [Humanities and Fine Arts] 3 [HPER 103 Lifetime Wellness] 2 CORE Educ 200 Orientation to Education II 2nd Semester Apply for admission to teacher education. 2 Psy 310 **Educational Psychology** Comm Elective 3 Oral Interpretation Th 212 CORE 3 [Humanities and Fine Arts] CORE [Hist 110 U.S. History] 3 CORE [HPER 101 Physical Activity] 15 **Junior Year** 1st Semester Pass Media Competencies Pedagogical Theory, Methods & Educ 329 **Practices** Educ 321 Microteaching Secondary Educ 390 2 Intro to Instructional Media 3 Comm 304 Small Group Comm Comm 315 Argumentation and Debate 3 3 Th 331 History of the Theatre 2 Educ 423 Classroom Management 2nd Semester CORE [Comm 305 Intercultural Comm] 3 Comm Flective [Phys 100 Fund of Phys Sci] CORE CORE [PSc 120 Gov't: U.S., State, Local] CORE [Econ 180 Amer Econ System] Educ 422 Reading in Secondary Schools

Senior Year 1st Semester Apply for student teaching. All course work must be completed except for Professional Semester courses. Directing I Th 351 CORE [Hist 320 U.S. History] Electives 15 2nd Semester Educ 402 Foundations of Education Educ 432 Critical Issues in Education Educ 344 Teaching Speech & Theatre in Sec. Schools Educ 401 Use of Computer Software in Classroom Student Teaching Educ 462 Educ 412 or Educ 420 or Educ 423 or Psy 412 18 [] Department Recommendation For additional information contact: Mr. Richard W. Massa Office: MSTV

English

Phone: 625-9372

Hearnes Hall 300, 625-9377

Faculty Lambert - Head, Ackiss, Bauer, Brown, Couch, DeArmond, Denniston, Fitzgerald, Greenlee, Hall, Harder, Hoffman, Marlowe, Morgan, Preble, Rodgers, Saltzman, Simpson, Spracklen, Walters

The department of English offers basic service courses in composition and literature for all students at the College. These courses emphasize writing and analytical skills and cultivate an appreciation of literature in all its variety. A major in English for the bachelor of arts degree has proved to be an excellent major for students who plan to enter business and industry, for students who plan to pursue graduate studies in English and for students who plan to enter professional schools such as law and medicine. Graduates of this program are in such widely diverse occupations as personnel relations, advertising, publishing, sales management, mass communications and college teaching. Majors in English are expected to exhibit skills in writing, organization and creativity and, they are expected to develop a perception of and appreciation for the human values that grow out of the study of literature.

A major in English for the bachelor of science in education degree is designed for students who wish to prepare to teach English (Plan B) or English plus another

field (Plan A) at the secondary level. With the need for excellence in secondary education so pressing, the English faculty work to develop in B.S.E. majors an informed enthusiasm for and dedication to teaching composition and literature so that they in turn will prepare their students well for college and for life.

A minor in English is an excellent choice for students who want supplementary training in English skills, logical thinking and literary knowledge. Students who wish to minor in English should arrange a coherent sequence of courses in consultation with the departmental adviser for minors. Students should choose courses on the basis of their backgrounds, their major programs and above all, their interests.

The department also offers its majors and other students opportunities to use their talents and pursue their interests through such organizations as the English Club and Sigma Tau Delta Honor Society, through publications like "The Winged Lion," and in projects like the annual Colloquim and the English Field Day.

Core Curriculum requirements in Humanities and Fine Arts can be met with the courses listed on page (35) under Area 2, section B and C. English 101 is a prerequisite to all courses except English 80 and 111. English 102 or 111 is a prerequisite to all 300-400 level English courses. The department urges all students to complete English 101 and 102 sequentially in their freshman year.

Bachelor of Arts with a Major in English

Semester Hours **Core Curriculum Requirements** 45 (page 35) 51* Foreign Language (four courses in one 12 language) **English Requirements** 42 Eng 301 Modern Grammar OR Eng 400 History of the English Language One course from Eng 216, 310, 313 and 315 English Electives** 36 **Electives** 29 128***

*Two of the English courses listed under Area 2, sections B and C on page 35 satisfy both six of the 51 hours required for the Core Curriculum and six of the 36

English

hours of English electives required for the major.

**Must be beyond freshman composition and include at least 12 hours at the 300-400 level. The student also will need to satisfy the computer literacy requirement as determined by the English de-

***Must include at least 40 upper division (300 - 400 level) hours.

Bachelor of Science in Education with a Major in English

Plan A

One of Two Teaching Fields

Semester Hours **Core Curriculum Requirements** (page 35) 51* 42 **English Requirements** 30 Eng 301 Modern Grammar Eng 319 Composition for Teachers 3 Eng 330 Literature for Adolescents 3 Eng 400 History of the English Language One course from Eng 216, 310, 313 and 315 English Electives** 15 **Education Certification Requirements** (page 118)

Six hours of literature from Area 2, sections B and C plus the required Psychology 110 satisfy Core Curriculum requirements.

Second Teaching Field (some fields

exceed 30 hours)

**Must be beyond freshman composition. The student also will need to satisfy the computer literacy requirement as determined by the English department.

Bachelor of Science in Education with a Major in English

Plan B Single Teaching Field

	Semester H	ours
Core Cui	rriculum Requirements	
(page 35		42
	Requirements	42
	Modern Grammar	3
	Composition for Teachers	
	Literature for Adolescents	3
Eng 400	History of the English	
	Language	3

One course from Eng 2	16, 310, 313
and 315	3
English Electives**	27
Education Certification Re	quirements
	40
(page 118) Electives	4
	128

*Six hours of literature from Area 2, Sections B and C plus the required Psychology 100 satisfy Core Curriculum requirements.

**Must be beyond freshman composition. The student also will need to satisfy the computer literacy requirement as determined by the English department.

Minor in English

Semester	Hours
Eng 216, 310 or 315	3
Eng courses at the 300-400 level	9
Eng Electives (beyond freshman	
composition)	9
	21*

*Should be chosen in consultation with an adviser in the English department.

Suggested Orders of Study

Bachelor of Arts Major Code 1501 **English Major**

Freshman Year 1st Semester

30

Course	Ho	ours
CORE	[Eng 101 Comp I]	3
CORE	[Hist 110 or 120 U.S. History]	3
Foreign La		3
CORE	[Math 110 or equivalent]	3
CORE	[HPER 101 Physical Activity]	1
Psy 120	College Orientation	1
		14
2nd Semes	ster	
CORE	[Eng 102 Comp II]	3

	ote.	
CORE	[Eng 102 Comp II]	3
CORE	[PSc 120 Gov't: U.S., State,	
	Local]	3
Foreign La	inguage	3
Eng	Elective	3
CORE	[Hist 110, 120 or 320 U.S.	
	History]	3
		15

Sophomo	re Year	
1st Semes	ster	
Eng	Elective	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Bio 101 or 110]	4
CORE	[HPER 103 Lifetime Wellness]	2
Eng 310	Professional Writing or English	
	elective	3
		15

2nd Sem	ester	
Eng	Elective	3
Eng	Elective	3
CORE	[Phys 100 Physical Science]	5
CORE	[Psy 100 or Soc 110]	3
Eng 216, :	310, 313 and 315 or English elect	tive
		3
		17
Junior Ye	ar	
1st Seme	ster	
Eng	Elective	3
Eng 301 c	or Eng Elective	3

		18
2nd Semes	ster	
Eng 400 or	Eng Elective	3
Eng	Elective	3
CORE	[Art 110, Mus 110 or Th 110]	3
Electives	[Minor]	6
		15

[Minor]

[Econ 180 Amer Econ System]

CORE

Electives

		-
Senior Yea	ar	
1st Semes	ster	
Eng	Elective	6
Electives	[Minor]	6
CORE	[International Cultural Studies]	3
		15

2nd Seme	ester	
Eng	Electives	6
Electives	[Minor]	9
		15
[] Departr	ment Recommendation	

Students must choose one course from 216, 310, 313 or 315. Eng 310 is offered fall semesters only; 216, 313 and 315 spring semesters only. Eng 301 is offered fall semesters only; Eng 400 is offered in spring semesters only. Six hours of literature selected from Area 2, sections B and C will satisfy six hours of the Core Curriculum requirements (page 35).

For additional information contact: Dr. Joseph Lambert Office: Hearnes Hall 314 Phone: 625-9535

Bachelor of Science in Education Major Code 0842 English Major (Plan B) Single Teaching Field

Note: Students following Plan A should consult an adviser in English and the other major to work out an individualized program.

1	Freshman '	Year	
-	1st Semest	er	
(Course	Ho	urs
(CORE	[Eng 101 Comp I]	3
1	Psy 100	General Psychology	3
(CORE	[Hist 110 or 120 U.S. History]	3
(CORE	[Math 110 or equivalent]	3
(CORE	[HPER 101 Physical Activity]	1
I	Psy 120	College Orientation	1
E	Educ 100	Orientation to Education I	1

Foreign Languages

2nd Seme	ester	
CORE	[Eng 102 Comp II]	3
Eng CORE	Elective	3
CORE	[PSc 120 Gov't: U.S., State, Loc	call 3
CORE	[Bio 101 or 110 Biology]	4
CORE	[Econ 180 Amer Econ System]	3
Educ 200	Orientation to Education II	1
		17
Sophomor	re Year	
1st Semes		
Eng	Elective	3
Eng	Elective	3
CORE	[HPER 103 Lifetime Wellness] [Phys 100 Physical Science]	2 5
CORE	[Art 110, Mus 110 or Th 110]	3
Psy 301	Adolescent Psychology	3
		19
2-16-		
2nd Seme	ster Admission to Teacher Educations	
Eng	Electives	6
Psy 302	Exceptional Child	2
Psy 310	Educational Psychology	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Hist 110, 120 or 320]	3 17
		1/
Junior Year		
1st Semest	ter	
Eng 301	Modern Grammar	3
Eng 310 or Eng 319	Eng Elective Composition for Teachers	3
Educ 329	Pedagogical Theory, Methods &	3
	Practices	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
		17
2nd Semes	ter	
Eng 400	History of English Language	3
	315 or Eng Elective	3
Eng 330	Literature for Adolescents	3
Educ 422	Teaching Reading Electives	2
Eng	Electives	6
		17
Senior Year		
	dmission to student teaching. All	
	rk must be completed except for	
1st Semeste	al Semester courses.	
Eng	Electives	9
Elective		3
CORE	[International Cultural Studies]	3
2nd Semes	tor	15
	ter I Semester, including Methods	in
Major	Theore, merading methods	16
		16

[] Department Recommendation

The department recommends two courses in

American literature and two courses in English/

world literature. Six hours of literature selected

from Area 2, sections B and C will satisfy six hours of the Core Curriculum requirements (page 35).

For additional information contact: Dr. Joseph Lambert Office: Hearnes Hall 314 Phone: 625-9535

Foreign Languages and Literatures

MSTV Building, 625-9580

Faculty Massa - Head, Bodon, Carney, Crawford, Peterson

Once it was simply said that fluency in a second language would be a valuable social and business asset. Now, however, a second language is deemed a necessity in solving many of the world's problems of this and the next century. The problems, we have learned, have their beginnings in understanding one another's words, ideas, cultures and beliefs. For business, foreign language skills have become an advantage, as The Wall Street Journal in a 1990 editorial said: "American managers with language skills open more doors." And The New York Times wrote: "American ignorance of other tongues has been hurting American business executives...."

In a college with an international mission, it becomes the task of the department of communications and its faculty in foreign languages to help students achieve communications skills in a non-native language.

To that end, the department has structured its foreign language offerings on a proficiency-based system of instruction so that students who enroll in a course will know at what level of general language proficiency they may begin and at what level they will end. Language study becomes, therefore an extremely practical tool.

By proceeding through a sequence of courses at the 100-and 200-level, students may prepare themselves for study at the Advanced level of language usage and then by further courses, combined with foreign study, achieve an Advanced Plus ability in language. This Advanced Plus proficiency will permit a student to perform successfully an internship abroad and during such an internship, even greater language proficiency may be developed.

A major in Spanish permits an in-depth study of the cultural heritages of various

Hispanic civilizations. Extensive study in any of the languages offered, however, when combined with majors in business, political science or communications, as some examples, is especially valuable for students of the 1990s. Whether the students' interests are in the European community, the booming tourism profession, Pacific Rim trade or international politics, they will wish to develop a high level of proficiency in a foreign language.

For all students, the department provides opportunities for study abroad. The department also offers advice concerning the role of language study in career planning. Whether enrolled or not in an international program, students may wish to examine the possibilities offered by foreign language study in enriching their careers.

Students who have had no previous foreign language training are advised to enroll in a 101 course. Students with one year of high school foreign language classes also should enroll in a 101 course. Students who had two years of a language in high school may enroll in a 102 course of the same language, if they received at least a "B" in the high school language. Students who had three or four years of high school foreign language study may enroll in a 203 course in the same language, provided their high school grades were a "B" average in that language. Students who may have attained a proficiency greater than that offered in a 203 course will be placed appropriately after an assessment is made of their skills.

Questions concerning the foreign language program should be addressed to the department of communications.

Bachelor of Arts with a Major in Spanish

Semester Hours **Core Curriculum Requirements** (page 35) 51* 48 **Computer Literacy Requirement:** CIS 305 Microcomputer Applications and Management 3 Spanish Requirements** 40 Span 101 Beginning Spanish I 3 Span 102 Beginning Spanish II 3 Span 203 Intermediate Spanish I 3 Span 204 Intermediate Spanish II 3 Span 301 Readings and Conversation 3 Span 302 Readings in Hispanic Literature and Culture 3

Foreign Languages

Span 303	Spanish Syntax I	2	
Span 304	Spanish Phonology	2	
Span 320	Spanish Syntax II and		
	Composition	3	
Span 321	Peninsular Literature (to		
	Calderon)	3	
Span 322	Peninsular Literature (to		
	Present)	3	
Span 333	Survey of Spanish-America	n	
	Literature I	3	
Span 334	Survey of Spanish-America	n	
	Literature II	3	
Span 440	The Novelistic Tradition	3	
	g Requirements		6
Comm	Intercultural		
305	Communications	3	
Geog	Geography and Culture of		
412	Latin America	3	
Electives			3
		1	28
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 C		

*Required course in Intercultural Communication satisfies the requirement for the International Studies category of the Core Curriculum.

**A major is Spanish must demonstrate, before the final semester, a proficiency in Spanish at the "Advanced Plus" level.

Bachelor of Science in Education with a Major in Spanish

Plan A

One of Two Teaching Fields

Semester Hours
Core Curriculum Requirements
(page 35) 51* 48
Computer Literacy Requirement:
Educ 401 Use of Computer Software in the Classroom 2
Spanish Requirements** 32
Span 101 Beginning Spanish I 3
Span 102 Beginning Spanish II 3
Span 203 Intermediate Spanish I 3
Span 204 Intermediate Spanish II 3
Span 301 Readings and Conversation

170	Literature and Culture	3
Span 303 OR	Spanish Syntax I	
	Spanish Phonology	2
Span 320	Spanish Syntax II and	
	Composition	3
Span 321	Peninsular Literature (to	
	Calderon)	
OP		

Span 302 Readings in Hispanic

Span 333 Survey of Spanish-American
Literature I
OR
Span 334 Survey of Spanish-American
Literature II 3
Span 440 The Novelistic Tradition 3
Education Certification Requirements
(page 118) 38-39
Second Teaching Field (some fields exceed 30 hours) 30

*Required course in psychology satisfies the requirements for three hours of the Core Curriculum.

**A candidate for a degree under Plan A must also demonstrate proficiency level of "Advanced Plus" in Spanish. This level must be attained prior to doing student teaching.

*A minimum of 128 hours required for a degree, but the exact number depends on the second field. In this example, the total number of hours is greater than 128.

Bachelor of Science in Education with a Major in Spanish

Plan B Single Teaching Field

Semester Hours

	Semester i	Hours
Core Curr	iculum Requirements	
(page 35)	51*	45
Computer	Literacy Requirement:	
Educ 401	Use of Computer Software	in
	the Classroom	2
Spanish Re	equirements**	32
Span 101	Beginning Spanish I	3
Span 102		3
Span 203	Intermediate Spanish I	3
Span 204	Intermediate Spanish II	3
Span 301	Readings and Conversation	n
	the second of the second	3
Span 302	Readings in Hispanic	
	Literature and Culture	3
Span 303	Spanish Syntax I	
OR		
Span 304	Spanish Phonology	2
Span 320	Spanish Syntax II and	
	Composition	3
Span 321	Peninsular Literature (to	
	Calderon)	
OR		
Span 322	Peninsular Literature (to	
	Present)	3
Span 333		can
	Literature I	
OR		
Span 334	Survey of Spanish-Americ	can

Literature II

Span 440	The Novelistic Tradition	3	
Supporting	g Requirements		6
Comm	Intercultural		
305	Communication	3	
Geog	Geography and Culture of		
412	Latin America	3	
Education	Certification Requirements		
(page 118)		3	8
Electives			5
		12	28
*Required	course in psychology and	inte	r-

*Required course in psychology and intercultural communication satisfy requirements for six hours of the Core Curriculum.

**A candidate for a degree under Plan B must also demonstrate proficiency level of "Advanced Plus" in Spanish. This level must be attained prior to doing student teaching.

Minor in Spanish

A minor in Spanish requires a student to attain a proficiency level of "Advanced Plus" and have 15 hours of approved classes in Hispanic literature at the upper-division level.

Minor in French

A minor in French requires 18 hours of courses in French of which six must be upper division.

Minor in German

A minor in German requires 18 hours of courses in German of which six must be upper division.

Suggested Orders of Study

Bachelor of Arts Major Code 1105 Spanish Major

Freshman Year

	lst Semest		
(Course	Hou	r
5	Span 101	Beginning Spanish I	
(CORE	[Eng 101 Comp I]	
(CORE	[Comm 100 Oral Comm]	
(CORE	[Math 110 Intro to College Math]	
(CORE	[HPER 103 Lifetime Wellness]	
(CORE	[Humanities and Fine Arts]	
F	Psy 120	College Orientation	
			1

2nd Semes	ster	
Span 102	Beginning Spanish II	
CORE	[Eng 102 Comp II]	
CORE	[Humanities and Fine Arts]	
CORE	[Phys 100 Fund of Phys Sci]	1
CORE	[HPER 101 Physical Activity]	
		1

Present)

Span 322 Peninsular Literature (to

Geography

Sophomo	re Year		Freshman	Year		1st Semes	tor	
1st Semes	ster		1st Seme			Span 303	Spanish Syntax I	2
Span 203	Intermediate Spanish I	3	Course		Hours	Span 333	Survey of Spanish-America	2
CORE	[Humanities and Fine Arts]	3	Span 101	Beginning Spanish I	3	3pan 333	Literature I	
CORE	[Bio 101 Biology]	4	CORE	[Eng 101 Comp I]	3	CORE	[Hist 320 U.S. History]	3
CORE	[Hist 110 U.S. History]	3	CORE	[Comm 100 Oral Comm]	3	CORE	[Econ 180 Amer Econ System	em] 3
CORE	[PSc 120 Gov't: U.S., State, Lo	cal]	CORE	[Math 110 Intro to College M	1ath] 3	Electives*	teen 100 / the Leon 5yst	6
		3	CORE	[HPER 103 Lifetime Wellness]	2			17
		16	Psy 120	College Orientation	1			"
		Marie L	Educ 100	Orientation to Educ I	1	2nd Semes	ster	
2nd Seme					16	Educ 402	Foundations of Educ	2
Span 204	Intermediate Spanish II	3	and Com			Educ 432	Critical Issue in Educ	2
CORE	[Psy 100 or Soc 110]	3	2nd Seme			Educ 345	Teaching Foreign Language	
CIS 305	Microcomputer Applications a	and	Span 102	Beginning Spanish II	3		Schools	2
CORE	Management	3	Psy 100	General Psychology	3	Educ 401	Use of Computer Software	
CORE	[Hist 320 U.S. History]	3	CORE	[Eng 102 Comp II]	3		Classroom	2
Elective*		3-6	CORE	[HPER 101 Physical Activity]	1	Educ 462	Student Teaching	8
		15-18	CORE	[Humanities and Fine Arts]	3	Educ 412 o	r Educ 420 or Educ 423 or Ps	sy 412 2
			CORE	[Hist 110 U.S. History]	3			18
Junior Yea					16	*Electives s	hould be chosen in consulta	ation with
1st Semes			Sophomoi	re Year		the studen	t's major adviser and with th	ne advice
Span 301	Readings and Conversation	3	1st Semes			of a faculty	member in a minor field of	f study, if
CORE	[Econ 180 Amer Econ System]	3	Span 203	Intermediate Spanish I	3	one is chos	sen.	//
Electives*		10	Educ 200	Orientation to Educ II	1	[] Dt		
		16	Educ 302	The Exceptional Child	2	[] Departm	ent Recommendation	
2 16			CORE	[Humanities and Fine Arts]	3	For addition	nal information contact:	
2nd Semes			CORE	[Phys 100 Fund of Phys Sci]	5	Mr. Richard		
Span 302	Readings in Hispanic Literature		Psy 301	Adolescent Psychology	3	Office: MS		
6 222	Culture	3	,	7 (3.10.108)	17	Phone: 625	5-9372	
Span 320	Spanish Syntax II & Composition							
Span 322	Peninsular Literature	3	2nd Seme			Geog	raphy	
	International Comm	3		admission to teacher education				
Geog 412	Geography and Culture of Latin		Span 204	Intermediate Spanish II	3	Mansion I	15, 625-9564	
	America	3	Psy 310	Educational Psychology	2	Faculty	Tate - Head, Sale	
		15	CORE	[Humanities and Fine Arts]	3	racuity	rate riead, sale	
C '- W		130	CORE	[Biology]	4	Geograph	y offers students a variety	of em-
Senior Year			CORE	[PSc 120 Gov't: U.S., State, Lo	ocal]	ployment	possibilities. These range	e from
1st Semest					3	positions	n secondary education to	coppor
Span 303	Spanish Syntax I	2			15	tunities in	government and busines	oppoi-
Span 321	Peninsular Literature	3	Junior Yea				government and busines	ss plan-
Span 333	Survey of Spanish-American			a Competencies		ning.		
Cnan 204	Literature I	3	1st Semest			Though a	major is not now offered	1. suffi-
Span 304	Spanish Phonology	2		Readings and Conversation	3	cient hour	rs are available to meet	t social
Electives*		5		Intercultural Communication	3	studies tea	cher certification standar	de Stu
		15	Educ 329	Pedagogical Theory, Methods		dents may	, with the supervision of	a social
and Company	Ann		2000 323	Practices	4	scionce as	hiser takes a second	a social
2nd Semes	Survey of Spanish-American		Educ 321	Microteaching Secondary	2	consisting	dviser, take a geography	minor
3pail 334		2	Educ 423	Classroom Management	2	consisting	of 18 semester hours.	
Span 440	Literature II The Novelistic Tradition	3	Elective*	- In Indian	3	Mina	n Cooperation	
Electives*		3 0-12			19	winor	in Geography	
Licetives							Semester	Hours
*Flectives s	hould be chosen in consultation v	6-18	2nd Semes			Geog 211	Regions and Nations	3
the student	t's major adviser and with the adv	vico	Span 302	Readings in Hispanic Literature	e		nours from:	6
	member in a minor field of stud		5010	and Culture	3	Geog 311	Political Geography	3
one is chos		у, П	Span 320	Spanish Syntax II and Compos	sition	Geog 322	Economic Geography	3
0110 15 01105	yern.	10-3			3		Coography and Culture	
[] Departm	ent Recommendation		Span 322	Peninsular Literature	3	Geog 412	Geography and Culture	: 01
For addition	nal information contact:		Geog 412	Geography and Culture of Lati		C- 100	Latin America	3
Mr. Richard			C 110	America	3	Geog 422	Geography of the U.S.	
Office: MS		1333	Span 440	The Novelistic Tradition	3		Canada	3
Phone: 625			Educ 422	Reading in Secondary Schools		Geog 498	Seminar in Geography	3
1 110116. 023	-33/2				17	Choose 9 h		9
Bachelor of	Science in Education		Senior Year	and the second of the second of the		Draf 230	Survey and Mapping	3
Major Code				student teaching. All course	work	CJAD 210	Basic Photography	3
Spanish Ma				impleted except for Professiona			Computing I	3
Single Teach	ning Field	1	mester cou		11 36-	Geol 300	Earth Environments	3
						3001 300	Lai tii Liivii Olillielits	3

Geology/History

Geol 320	Historical Geology	3
PSc 322	International Law	3
PSc 332	Comparative Governme	ent:
	Latin America	3
Soc 155	Physical Anthropology	&
	Archaeology	3
Soc 361	The Study of Population	1 s*
		3
Soc 402	The Community*	3
		1
*C D	- muicitos	

*See Prerequisites

Geology

Reynolds Hall 210, 625-9376

Faculty Baiamonte - Head, Knapp

Geology courses are used to supplement other major areas of study and for state certification for teaching general science at the 7-12 grade levels.

History

Mansion 115, 625-9564

Faculty Tate - Head, Belvins, Holman, Laas, Markman, Sale, Smith, Teverow

A bachelor of arts degree with a major in history prepares students for entering career positions in business, governmental and community service fields and for entry into graduate programs in the social science and law. A bachelor of science in education with a major in social studies history emphasis - certifies a student to enter professional teaching at the secondary school level. A minor in history is available for students majoring in other disciplines. Also see page 76 for a social science minor or the social studies for secondary education minor.

Core Curriculum requirements and Missouri statute requirements are met by History 110 and History 120 or 320. History 130 or 140 may also be used to meet certain Core Curriculum requirements.

History 110 or 120 is a prerequisite for all upper division U. S. history courses. History 320 substitutes for 120, but may not be used to fulfill upper division history requirements.

History 130 or 140 is a prerequisite for all upper division European or East Asian history courses.

Bachelor of Arts with a Major in History

Semester Hours
Core Curriculum Requirements

(page 35) 51* 42

Computer	Literacy Requirement -	
determined	I by the social science	
departmen		2-3
Foreign Lar	nguage (four courses in one	2
language)	0 0	12
History Red	quirements	33
	U.S. History 1492-1877	3
Hist 120	U.S. History 1877-Present	
OR OR	C.S. Thistory To.	
Hist 320	U.S. History 1877-Present	3
Hist 320	Western Civilization to 16	
HIST 130	Western Civilization to 10	3
11:-4 140	Western Civilization Since	
Hist 140		3
	1660	3
Hist 497	Seminar in Historical	
	Research**	
OR	plants and a second	
Hist 499	Independent Study	
	(Internship)**	3
Hist	Upper Division U.S.**	6
Hist	Upper Division European	
	or East Asian**	6
Hist	Upper Division Electives*	*
	plant and the	6
Electives		38-39
Licetives		28***
*Poquirod	History courses satisfy	

*Required History courses satisfy major requirements and 9 hours of Core Curriculum.

**See Prerequisites

***Must include at least 40 upper division (300-400 level)hours.

Bachelor of Science in Education with a Major in Social Studies

History Emphasis

Hist

Plan B Single Teaching Field

Semester Hours

	Seriiestei 1	00
Core Curri	culum Requirements	
(page 35) !	51*	33
History Re	quirements	33
Hist 110	U.S. History 1492-1877	3
Hist 120	U.S. History 1877-Present	
OR		
Hist 320	U.S. History 1877-Present	3
Hist 130	Western Civilization to 166	50
		3
Hist 140	Western Civilization Since	
	1660	3
Hist 497	Seminar in Historical	
	Research**	
OR		
Hist 499	Independent Study	
	(Internship)**	3
Hist	Upper Division U.S.**	6

Upper Division European 3

Hist	Upper Division East		
	Asian**	3	
Hist	Upper Division Electives**		
		6	
Supporting	Requirements		21
PSc 120	Gov't: U.S., State, Local	3	
PSc	Upper Division Elective	3	
Soc 110	Intro to Sociology	3	
Soc	Upper Division Elective	3	
Geog 211	Regions and Nations	3	
Geog	Upper Division Elective	3	
Econ 180	Amer Econ System	3	
Education	Certification Requirements		
(see page 1		10	-41
Elective			1
		1	128

*Required history, political science, sociology and economics courses satisfy major requirements and 18 hours of Core Curriculum.

**See Prerequisites

Minor in History

	Semester He	ours
Hist 110	U.S. History 1492-1877	3
Hist 120	U.S. History 1877-Present	
OR		
Hist 320	U.S. History 1877-Present	
Hist 130	Western Civilization to 166	0
OR		
Hist 140	Western Civilization Since	
	1660	3
Hist	Upper Division U.S.	
	Elective*	3
Hist	Upper Division European*	
OR		
Hist	Upper Division East Asian	
	Elective*	6
		18

*Must be chosen with approval of history adviser.

Minor in Social Studies For Secondary Education (page 76)

Suggested Order of Study

Bachelor of Arts

Major Code 2205 **History Major** Freshman Year 1st Semester Hours Course Hist 110 U.S. History 1492-1877* [Eng 101 Comp I] CORF [Math 110 Intro to Col Math] CORE [HPER 103 Lifetime Wellness] CORE **CORE** [HPER 101 Physical Activity] **CORE** [Humanities and Fine Arts]

Mathematics

Psy 120	College Orientation	1 16	Hist 497 OR	Seminar in Historical Research	ch**	Educ 329	Pedagogical Theory, Methods Practices	&
			Hist 499	Independent Study**	3	Educ 321	Microteaching	
2nd Semes	ster		Electives	[A minor is suggested]	7	Educ 401	Use of Comp Software in Class	
Course				00	16	Educ 423	Classroom Management	3
Hist 120 OR	U.S. History 1877-Present*		*Also mee **See Pre	ets a Core Curriculum requirer		2000 125	ciassiooni management	1
Hist 320	U.S. History 1877-Present*	3	[] Depart	ment Recommendation				
CORE	[Eng 102 Comp II]	3	[] Depart	ment Recommendation		2nd Seme		
CORE	[PSc 120 Gov't: U.S., State, Loc		For addition	onal information contact:		Hist	Upper Division U.S. (not 320)	
00.1.2	(1 5 c 12 6 6 v t. 6.5., State, 26 c	3	Dr. Rober	t Markman		Hist	Upper Division European or Ea	
CORE	[Bio 101 General Biology]	4	Office: M	ansion 204		6 240	Asian	
CORE	[Comm 100 Oral Comm]	3	Phone: 62	5-9547		Soc 342	Comparative Cultures	
	[comm for oral comm]	16				Hist	Upper Division Elective (not 32	20)
	A STATE OF THE STA			of Science in Education		PSc	Upper Division Elective	
Sophomore	e Year		Major Cod					1
1st Semest				dies Major				
Course			(Plan B)	Single Teaching Field		Senior Yea		
Hist 130	Western Civilization to 1660	3	History En	npnasis		1st Semes		
Foreign La		3	Freshman	Year			admission to student teaching	
CORE	[English Lit]	3	1st Semes	ter			ork must be completed except Pro	otes
Elective		3	Course		Hours	sional Sen		
CORE	[Econ 180 Amer Econ System]	3	Hist 110	U.S. History 1492-1877*	3	Hist	Upper Division Elec (not 320)	
		15	CORE	[Eng 101 Comp I]	3	Hist	Upper Division European or Ea	
			Psy 100	General Psychology	3	List 107	Asian	
2nd Semes	ster		CORE	[Math 110 Intro to Col Math]	3	Hist 497	Seminar in Hist Research	
Course			Psy 120	College Orientation	1	OR Hist 499	Internelia	
Hist 140	Western Civilization Since 1660	3	Educ 100	Orientation to Educ 1	1	Geog	Internship Upper Division Elective	
Foreign La		3	CORE	[Comm 100 Oral Comm]	3	CORE	[Humanities and Fine Arts]	
CORE	[Soc 110 Intro to Sociology]	3			17	Educ 422	Reading in the Sec School	
CORE	[Phys 100 Fund of Phys Sci]	5				Luuc 122	nedding in the see sensor	1
CORE	[Computer Literacy course		2nd Seme					•
	selected with adviser's appro-		Hist 120	U.S. History 1877-Present*		2nd Semes	ster	
		3	OR	116 115 1 1077 D	2		Teaching Soc Sci in Sec School	
		17	Hist 320	U.S. History 1877-Present*	3			4
Lunian Vaan			CORE	[Eng 102 Comp II]	3		ar semester .	1
Junior Year 1st Semest			PSc 120 CORE	Gov't: U.S., State, Local* [Bio 101 General Biology]	3 4	See page 1	118 for specific education departr	
Course	ei		CORE	[HPER 101 Physical Activity]	1	requireme	· · · · · · · · · · · · · · · · · · ·	
Hist	Upper Division U.S. (not 320)	3	Elective	[THER TOT THY SICAL ACTIVITY]	3	*Also mee	ets a Core Curriculum requireme	nt
CORE	[Humanities and Fine Arts]	3	Licetive		17			
CORE	[International Cultural Studies]	3			ALIEN T		onal information contact:	
Foreign Lar		3	Sophomore	e Year		Dr. David		
Elective	[A minor is suggested]	3	1st Semest			Office: Ma		
	88	15	Hist 130	Western Civ to 1660	3	Phone: 62	5-9505	
			CORE	[English Lit]	3	Math	omotics	
2nd Semes	ter		CORE	[HPER 103 Lifetime Wellness]			ematics	
Course			CORE	[Phys 100 Fund of Phys Sci]	5	Reynolds	Hall 210, 625-9376	
Hist	Upper Division U.S. (not 320)	3	Educ 200	Orientation to Educ II	1			C
Foreign Lar		3	Psy 301	Adolescent Psychology	3	Faculty	Martin - Head, Abbott, (
Electives	[A minor is suggested]	9			17		ck, Hand, Harmon, Jolly,	
		15					Miller, Mulkey, Shields, Thuc	ong
			2nd Semes			Wilkinson	n, Wolfe	
Senior Year				admission to Teacher Education		In an inc	crossingly tochnological cos	int
1st Semeste	er		Hist 140	Western Civ 1660-Present	3		creasingly technological soc	
Course	II. Division F		Geog 211	Regions and Nations	3		ons of mathematics continue	
Hist	Upper Division European or Eas		Soc 110	Intro to Sociology*	3		in variety. Persons with quan	
	Asian	3	CORE Psy 310	[Humanities and Fine Arts]	3		ty and training are in high	
Hict	Upper Division Elective (not 320	9		Educational Psychology Exceptional Child	2 2		reer opportunities exist in a di	
	[A minor is suggested]		Educ 302	Exceptional Child		sity of	fields such as engineer	ing
	[A minor is suggested]				14			
	[A minor is suggested]	15			16	computer	r science, economics, statist	tics
Electives				mentago la secolo est.	16			
Hist Electives 2nd Semes			Junior Year		16	operation	r science, economics, statist	ed
Electives 2nd Semes Course	ter	15	Junior Year 1st Semest	er	16	operation ucation.	r science, economics, statis is research, management and Missouri Southern graduates	ed- are
Electives 2nd Semes		15	Junior Year 1st Semest			operation ucation. A enjoying	r science, economics, statististististististististististististist	ed- are eas

Mathematics

choose to continue their education in graduate school. The curriculum is designed to prepare students for either path.

For the student wishing to prepare for a career in engineering, the mathematics department and the physical science department have worked in close cooperation with the staff at the University of Missouri-Rolla to develop a "Model Program for Engineering Transfers." Students may obtain a copy of this pamphlet from the department head. The program consists basically of two years at Missouri Southern and two years at Rolla. Naturally, time spent at either institution varies depending on the student's individual rate of progress.

Core Curriculum requirements for the bachelor's and the associate of arts degree can be met with any mathematics course numbered 110 or above. Note the limitations on Math 111 in the course descriptions.

Core Curriculum requirements for the associate of science degree can be met with any mathematics course numbered 030 or above.

For students majoring in mathematics or mathematics education only courses in which they have earned a grade of "C" or above can be used to satisfy departmental mathematics requirements.

Bachelor of Science with a Major in Mathematics

Semester Hours

	Jemester i	louis
Core Curri	culum Requirements	
(page 35) 5	51*	43
Mathemati	cs Requirements	39
Math 150	Calculus with Analytic	
	Geometry I**	5
Math 250	Calculus with Analytic	
	Geometry II**	5
Math 260	Calculus with Analytic	
	Geometry III**	5
Math 300	Fundamentals of	
	Mathematical Thought**	3
Math 342	Abstract Algebra**	
OR		
Math 351	Linear Algebra**	3
Math	Electives numbered above	e
	320***	18
Supporting	Requirements	18
Physics an	d/or chemistry electives-	

Phys 120, Phys 140, Phys 180, Phys 300)

		15
Comp 110	(or above)	3
Electives		28
		128****
		1

*Required mathematics, chemistry and physics courses satisfy major requirements and 8 hours of the Core Curriculum.

**See Prerequisites

***Must include one from Math 350, 371, 431, 452 to satisfy computer literacy requirement.

*****Must include at least 40 upper division (300 - 400 level) hours.

Only courses in which a student has earned a grade of "C" or above can be used to satisfy departmental mathematics requirements for the major or minor in mathematics.

Bachelor of Science in Education with a Major in Mathematics

Plan A
One of Two Teaching Fields

Semester Hours

Core Curric	culum Requirements		
(page 35) 5	1*		45
Mathematic	cs Requirements		30
	Calculus with Analytic		
	Geometry I**	5	
Math 250	Calculus with Analytic		
	Geometry II**	5	
Math 260	Calculus with Analytic		
	Geometry III**	5	
Math 300	Fundamentals of		
	Mathematical Thought**	3	
Math 332	Geometry	3	
Math 342	Abstract Algebra**		
OR	yes to house on leading		
Math 351	Linear Algebra**	3	
Math 361	Introduction to Probabilit	ty	
		3	
Math	Elective***	3	
Supporting	Requirements		3
Comp 110	(or above, substitutes for		
	Educ 401)	3	
Education (Certification Requirements		
(page 118)			-40
Second tea	ching field (some fields exc	cee	bs
30 hours)	and Dally Sales (1998)		30

*Required courses in mathematics and psychology satisfy major requirements and 6 hours of the Core Curriculum.

147-148**

**See Prerequisites

***Must include one from Math 350, 371,

431, 452 to satisfy computer literacy requirement.

****Varies with 2nd field

Only courses in which a student has earned a grade of "C" or above can be used to satisfy departmental mathematics requirements for the major or minor in mathematics education.

Bachelor of Science in Education with a Major in Mathematics

Plan B Single Teaching Field

Semester Hours

	Jennester i	iours
Core Curri	culum Requirements	
(page 35) 5	51*	40
Mathemati	cs Requirements	33
Math 150	Calculus with Analytic	
	Geometry I**	5
Math 250	Calculus with Analytic	
	Geometry II**	5
Math 260	Calculus with Analytic	
	Geometry III**	5
Math 300	Fundamentals of	
	Mathematical Thought**	3
Math 332	Geometry 3	
Math 342	Abstract Algebra**	
OR		
Math 351	Linear Algebra**	3
Math 361	Introduction to Probabili	ty
		3
Math	Electives numbered abov	e
	320***	6
Supporting	Requirements	13
Physics an	d/or Chemistry electives -	
	de courses from both	
(excluding	Chem 100, Phys 100, Phys	
	140, Phys 180)	10
Comp 110	(or above, substitutes for	
	Educ 401)	3
Education	Certification Requirements	
(page 118)		39-40
Electives		2-3
		128
*Required	courses in mathematics, c	hem-

*Required courses in mathematics, chemistry, physics and psychology satisfy major requirements and 11 hours of the Core Curriculum.

**See Prerequisites

***Must include one from Math 350, 371, 431, 452 to satisfy computer literacy requirement.

Only courses in which a student has earned a grade of "C" or above can be used to satisfy departmental mathematics requirements for the major or minor in mathematics education.

must include at least one course from

each (excluding Chem 100, Phys 100,

Mathematics/Music

Minor in Mathematics	-0	CORE	[HPER 101 Physical Activ	vity] 1	Junior Yea	ar
Semeste	r Hours	CORE	[Area 5 Elective]	3		ia Competencies
Math 150	riours	Elective		3	1st Semes	
Calculus with Analytic Geometry I	-			17	Math 332	
Math 250	5				OR	
		Senior Ye			Math 361	
Calculus with Analytic Geometry I	1 5	1st Seme			Math	Elective**
Math		Math	Electives**	6	Educ 329	Pedagogical Theory, Methods &
electives numbered above 250*	11	Electives		9	F.I. 224	Practices
	21			15	Educ 321	Micro Teaching
*At least 6 hours upper division.	23 34 34 5				Educ 423	Classroom Management
all solement in which is	an bill	2nd Sem	ester		CORE	[Hist 120 or Hist 320 U.S. History
	100	Math	Electives**	6		
Suggested Orders of St	udy	Electives		9		
Bachelor of Science		*C		15	2nd Seme	ester
Major Code 1701		**Flanting	uirements and exclusions or	page 51.	Math	Electives**
Mathematics		Elective	es must be approved by ma	th adviser.	CORE	[PSc 120 Gov't: U.S., State, Local
Ford		*Must be	ment Recommendations			1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
Freshman Year		Student 7	e taken at night the semest	ter prior to	Psy 310	Educational Psychology
1st Semester Course	1. 50	Student	leaching		Psy 302	Exceptional Child
Math 150 Calculus I	Hours	For addit	ional information contact:		CORE	[Area 2 Elective]
Chem 101 General Chemistry I	5 5	Dr. J. Larr				
CORE [Eng 101 Comp I]	3		eynolds Hall 212		c · · ·	
CORE [Area 2 Elective]	3	Phone: 6	25-9540		Senior Yea	
Psy 120 College Orientation	1				1st Semes	
to y is conege offentation	17		of Science in Education		Apply for	Student Teaching. All course work
		Major Co			Semester.	ompleted except Professional
2nd Semester		Mathema	tics Major (Plan B)		Math 332	
Math 250 Calculus II	5	Single lea	ching Field		OR	
CORE [Eng 102 Comp II]	3	Freshman	Year		Math 361	
Phys 250 General Physics	4	1st Semes			Math	Elective**
Comp 110 Pascal (or higher)	3	Course		Hours	CORE	[Area 5 Elective]
CORE [Comm 100 Oral Comm]	3	Math 150	Calculus I	5	CORE	[Econ 180 Amer Econ System]
	18	CORE	[Eng 101 Comp I]	3	Educ 422	Reading in the Sec School
SL		Psy 100	General Psychology	3	Elective	
Sophomore Year	Transfer of	CORE	[HPER 103 Lifetime Welln			
1st Semester Math 260 Calculus III		Educ 100	Orientation to Education			
CORE [Econ 201 Prin of Economics	5 3	Psy 120	College Orientation	1	2nd Semes	
CORE [Hist 110 U.S. History]	3			15	Educ 339	Teaching Math in Sec Schools
CORE [HPER 103 Lifetime Wellness		0 10	AND THE PROPERTY OF THE PARTY.		Educ 402 Educ 432	Foundations of Education
Phys or Chemistry Electives*	3-5	2nd Seme		one seed to be	Luuc 432	Critical Issues 2 Required Elective [Educ 412, 420, or Psy 412]
	16-18	Math 250		5		051 160 0 1 - 1
		Chem 101 CORE		5		2Educ 462 Student Teaching
2nd Semester			[Eng 102 Comp II] Pascal (or higher)	3	*See requi	rements and exclusions on
Math 300 Fund of Math Thought	3	CORE	[HPER 101 Physical Activity	3 ty] 1	page 51.	and exclusions on
Math Elective [322]	3	COKE	[THER TOT THYSICAL ACTIVI	17		must be approved by math adviser
CORE [Psy 100 or Soc 110]	3			.,		ent Recommendations
CORE [Area 2 Elective]	3	Sophomor	o Voar		For addition	nal information contact:
CORE [Hist 120 or Hist 320 U.S. Hi	istory]	1st Semes				
	3	Math 260	Calculus III	5	Office: Per	ynolds Hall 212
	15	Phys 250*	Culculus III	5	Phone: 625	
Junior Year		CORE	[Comm 100 Oral Comm]	3		33.10
1st Semester		CORE	[Area 2 Elective]	3	Music	
Math Electives**	6	Educ 200	Orientation to Education I			
CORE [Area 2 Elective]	3			17	Music Bui	lding 214, 625-9318
Chem or Physics Electives*	3-5	2nd Seme	ster		Faculty	Havely - Head, Carnine, Chung
CORE [PSc 120 Gov't: U.S., State,			admission to Teacher Educa	tion	/	ott, Harrell, Harris, Meeks, Thele
tale, otale,	3	Math 300	Fundamentals of Math The			
	15-17	CORE	[Bio 101 General Biology]	d 4	The depar	tment of music offers a bachelo
		CORE	[Area 2 Elective]	3	of arts deg	gree and a bachelor of science in
2nd Semester		Psy 301	Adolescent Psychology	3	education	degree with a major in music
Math Electives**	6	CORE	[Hist 110 U.S. History]	3	Each degr	ee prepares graduates for perfor
CORE [Bio 101 General Biology]	4			16	mance, st	udio teaching and/or continued

study toward an advanced degree. In addition, the bachelor of science in education degree prepares graduates for teaching in public education.

Core Curriculum requirements for one course in Area 2, Humanities and Fine Arts, are fulfilled by Mus 110 Music Appreciation.

Bachelor of Arts with a Major in Music

major	in Music	
	Semester	Hours
Core Curr	riculum Requirements	
(page 35)		51
Computer	Literacy Requirement -	
determine	ed by the music department	t 2-3
Foreign La	anguage (four courses in or	ne
language)		12
Music Red	quirements	72
Mus 109	Sight Singing & Ear Trainir	ng*
		2
Mus 210	Sight Singing & Ear Trainir	
		2
Mus 111	Music Theory	3
Mus 112	Music Theory*	3
Mus 182	Conducting Techniques*	2
Mus 211	Music Theory* Music Theory*	2 3 3 2 3 3
Mus 212	Music Theory*	3
Mus 240	Recital Attendance (8	
	semesters)	0
Mus 311	History of Music*	3
Mus 312	History of Music*	3
Mus 420	,	3
Mus 431	Orchestration*	3
Mus 444		2
14 450	Techniques*	2 0
	Senior Recital*	U
	usic Ensemble (8	16
semester		
Private st	tudy in one area (8 semeste	16
Amaliad	niana alastiva (Evcant	10
	piano elective (Except	8
	d majors)	-
	rd majors must take 8 sem music electives in lieu of t	
	piano elective.)	.116
applied	Jiano elective.)	7 4204

*See Prerequisites

**Must include at least 40 upper division (300 - 400 level) hours.

137-138**

***Must be taken the last eight semesters of residency.

Bachelor of Science in Education with a Major in Music

Single Teaching Field Plan B Instrumental Emphasis Option 1

Semester Hours

Core Curr	riculum Requirements	
(page 35)	51*	48
	quirements	74
Mus 109	Sight Singing & Ear	
	Training**	2
Mus 210	Sight Singing & Ear	
	Training**	2
Mus 111	Music Theory	3
Mus 112	Music Theory**	3 2 3
Mus 182	Conducting Techniques**	2
Mus 211	Music Theory**	3
Mus 212	Music Theory**	3
Mus 231	String Techniques	1
Mus 232	Brass Techniques	1
Mus 233	Percussion Techniques (No	t
	open to percussion majors	
	Percussion majors must	
	substitute a second	
	semester of Mus 232 or 23	4.)
		1
Mus 234	Woodwind Techniques	1
Mus 240	Recital Attendance (7	
77140 2 10	semesters)	0
Mus 311	History of Music**	3
Mus 312	History of Music**	3
Mus 333	Music for the Elem	
11105 555	Grades***	2
Mus 411	Marching Band Methods*	
Mus 420	Form and Analysis**	3
Mus 431	Orchestration**	3
Mus 432	Music in the Public	7
1V1U3 432	School***	2
Mus 444	Advanced Conducting	
Wids 444	Techniques**	2
Mus 450	Senior Recital**	0
Mus	Vocal/Choral Elective	
Mus	Piano/Wind Instrument	2
		_
(a) Instru	umental major, other than p	iano:
two sem	ester hours of piano study	or the
	nt (Class piano may be	
included		
(b) Piano	major: Two semester hour	rs of
private s	tudy on a wind instrument	or the

equivalent. The requirement under (a) and (b) may be satisfied through private study and/or by a proficiency test.

Private study as a major in one area (7 semesters) Large Ensemble (7 semesters)**** Brass, woodwind or percussion major: the seven semesters of large ensemble must be in band. String Major: the seven semesters of large ensemble must be in orchestra.

Education Certification Requirements 40-41 162-163

*The required course in psychology satis-

fies both certification requirements and 3 hours of Core Curriculum, Area 3C.

**See Prerequisites

***Must be completed prior to the Professional Semester of supervised teaching. *Must be taken the seven semesters immediately prior to the student teaching semester.

Bachelor of Science in Education with a Major in Music

Single Teaching Field Plan B Option II **Vocal Emphasis**

Semester Hours

Core Curr	riculum Requirements	
(page 35)	51*	4
Music Red	quirements	7
Mus 109	Sight Singing & Ear	
	Training**	2
Mus 210	Sight Singing & Ear Trainin	g
		2
Mus 111	Music Theory	3
Mus 112	Music Theory**	3 2 3 3
Mus 182	Conducting Techniques**	2
Mus 211	Music Theory**	3
Mus 212	Music Theory**	3
Mus 240	Recital Attendance (7	
	semesters)	0
Mus 309	Choral Techniques	2 3
Mus 311	History of Music**	
Mus 312	History of Music**	3
Mus 333	Music for the Elem	
	Grades***	2
Mus 420	Form and Analysis**	2 3
Mus 431	Orchestration**	3
Mus 432	Music in the Public	
	School***	2
Mus 444	Advanced Conducting	
	Techniques**	2
Mus 450		0
Mus	Instrumental Elective	2
Mus	Piano/Voice	6
(a) Piano	Major: Six semester hours	of
private ve	oice study or the equivalent	t
(b) Voice	Major: Six semester hours	of
piano stu	udy or the equivalent (two	
semester	s of private study following	the

satisfactory completion of four semesters of Mus 113).

The requirement under (a) and (b) may be satisfied through private study and/or by a proficiency test. Satisfactory completion of four semesters of Mus 113 constitutes passing the Piano Proficiency

Private study as a major in one area (7 semesters)

School of Arts and Sciences/67

Concert Chorale (7 semesters)**** 14	Suggo	stad Ordans of Study	Mus	Large Ensemble 2
Education Certification Requirements	-	sted Orders of Study	CORE	[Comm 100 Oral Comm] 3
(page 118) 40-41	Bachelor o		Foreign La	0 0
162-163	Major Cod			16-17
*The required course in psychology satis-	Music Majo	or	2-16	
fies both certification requirements and 3	Freshman Y	Year	2nd Seme	
hours of Core Curriculum.	1st Semest		Mus 444 Mus 408	Advanced Conducting 2 Applied Music Major 2
**See Prerequisites	Course	Hours	Mus 240	Recital Attendance Cr
***Must be completed prior to the Profes-	Mus 111	Music Theory 3	Mus 431	Orchestration 3
sional Semester of supervised teaching.	Mus 207	Applied Music Major 2	Mus	Applied Piano or Music Elective
****Must be taken the seven semesters	Mus 240	Recital Attendance Cr		1-2
immediately prior to the student teaching	Mus	Applied Piano or Music Elective	Mus	Large Ensemble 2
semester.		1-2	CORE	[Art 110 or Th 110 Apprec] 3
semester.	Mus	Large Ensemble 2	Foreign La	anguage 3
	CORE	[Eng 101 Comp I] 3		16-17
	CORE Psy 120	[Mus 110 Music Apprec] 3 College Orientation 1		
Bachelor of Science in	1 Sy 120	15-16	Senior Yea	
		13-10	1st Semes	
Education with a Major in	2nd Semes	ter	Mus 311	History of Music 3
Music	Mus 112	Music Theory 3	Mus 407	Applied Music Major 2
Dlan B Single Teaching Field	Mus 109	Sight Singing & Ear Training 2	Mus 240	Recital Attendance Cr
Plan B Single Teaching Field	Mus 208	Applied Music Major 2	Mus	Applied Piano or Music Elective
Option III Double Certification	Mus 240	Recital Attendance Cr	Mus	Large Ensemble 1-2
Semester Hours	Mus	Applied Piano or Music Elective	CORE	[Phys 100 Fund of Phys Sci] 5
Core Curriculum Requirements		1-2	CORE	[Eng 281 or 282 Lit] 3
(page 35) 51*	Mus	Large Ensemble 2	Foreign La	- 0
Music Requirements 108	CORE	[Eng 102 Comp II] 3		19-20
All of the requirements listed for	CORE	[Math 110 Intro to Col Math] 3		
Option I and Option II, either (a) or		16-17	2nd Seme	ster
(b), with the exception of the applied			Mus 312	History of Music 3
major requirement 86	Sophomore		Mus 408	Applied Music Major 2
Private study as an applied major in	1st Semeste Mus 211		Mus 240	Recital Attendance Cr
one primary area (7 semesters) 14	Mus 210	Music Theory 3 Sight Singing & Ear Training 2	Mus 450	Senior Recital 1-2
Private study as an applied elective in	Mus 207	Applied Music Major 2	Mus	Large Ensemble 2
one secondary area (4 semesters) A	Mus 240	Recital Attendance Cr	CORE	[PSc 120 Gov't: U.S., State, Local]
proficiency test in the secondary major	Mus	Applied Piano or Music Elective	Educ 401	Use of Comp Software in Class (Or
		1-2	Luuc 401	computer course approved by
area must be passed before	Mus	Large Ensemble 2		music dept.) 2
graduation 8	CORE	[HPER 103 Lifetime Wellness] 2	CORE	[Soc 342 Comparative Cultures] 3
A senior recital will be required only in the	CORE	[HPER 101 Physical Activity] 1	Foreign La	
primary applied area.	CORE	[Hist 110 U.S. History] 3		19-20
Education Certification Requirements	CORE	[Econ 180 Amer Econ System] 3	[] Departn	ment Recommendation
(page 118) 40-41		19-20	For addition	onal information contact:
196-197	2-16		Mr. Pete F	
*The required course in psychology satis-	2nd Semes Mus 212			usic Building 216
ties both certification requirements and 3	Mus 212 Mus 208	Music Theory 3 Applied Music Major 2	Phone: 62	
hours of Core Curriculum.	Mus 240	Recital Attendance Cr		
	Mus	Applied Piano or Music Elective		of Science in Education
		1-2	Major Cod	
Minor in Music	Mus	Large Ensemble 2	Music Maj	
Minor in Music	CORE	[Hist 120 U.S. History] 3	(Plan B)	Single Teaching Field or With Vocal Emphasis
Semester Hours	CORE	[Bio 101 General Biology] 4	riano iviaj	or with vocal Emphasis
Mus 111	CORE	[Psy 100 General Psychology] 3	Freshman	Year
Music Theory 3		18-19	1st Semes	
Mus 112			Course	Hours
Music Theory 3	Junior Year		Mus 111	Music Theory 3
Large Ensemble 4	1st Semeste		Mus 207	Applied Music-Major Piano 2
Applied Music Elective (2 Semesters) 2	Mus 182	Conducting Techniques 2 Form, Analysis 3	Mus 105	Applied Music-Voice 1 Choir 2
Music Electives* 9	Mus 420 Mus 407	Applied Music Major 2	Mus 121 Mus 240	Recital Attendance Cr
21	Mus 240	Recital Attendance Cr	CORE	[Eng 101 Comp I] 3
*Must be made with prior approval of	Mus	Applied Piano or Music Elective	Psy 120	College Orientation 1
music adviser, 6 must be upper division.		1-2	CORE	[Mus 110 Music Apprec] 3

Psy 100	General Psychology	3	Mus 306	Applied Music Voice	1 2nd S	emester	
Educ 100	Orientation to Educ I	1	Mus 321	Choir	2 Mus	112 Music Theory	3
		19	Mus 240	Recital Attendance C	r Mus :	232	
			Mus 333	Music in Elem Grades	2 OR		
2nd Semes	ster		Mus 431	Orchestration	3 Mus 2	234 Brass/Woodwind Techniques	1
Mus 112	Music Theory	3	CORE		3 Mus		2
Mus 109	Sight Singing & Ear Training	2	Psy 301		3 Mus 2		2
Mus 208	Applied Music Major Piano	2	. 37 30.	2			2
Mus 106	Applied Music Voice	1			Mus		Cr
			Senior Yea	r	CORE		3
Mus 121	Choir	2	1st Semes	ter			
Mus 240	Recital Attendance	Cr		Student Teaching. All course wor	k CORE		2
CORE	[Eng 102 Comp II]	3		ompleted except Professional Semes	COKI		1
CORE	[Math 110 Intro to Col Math]	3	ter.	impleted except Professional Semes	COKI		3
Mus	Instrumental Elective	2		Chair	2 CORE	[Econ 180 Amer Econ System]	3
CORE	[Econ 180 Amer Econ System]	3	Mus 421				22
		21	Mus 432		2		
			Mus 408		2		
Sophomor	e Year		Mus 450			omore Year	
1st Semest			Mus 240	Recital Attendance		emester	
Mus 310		2	Psy 310	Educational Psychology	2 Mus	231	
	Vocal Techniques		CORE	[Phys 100 Fund of Phys Sci]	5 OR		
Mus 211	Music Theory	3	Educ 401	Use of Comp Software in Class (C	r Mus	233 String/Percussion Techniques	1
Mus 210	Sight Singing & Ear Training	2		computer course approved by	Mus		
Mus 207	Applied Music Major Piano	2			2 OR		
Mus 105	Applied Music Voice	1	Educ 422	Teaching Reading in Sec Schools	0	210 Chair or Vocal Tachniques	2
Mus 121	Choir	2	CORE		-		2
Mus 240	Recital Attendance	Cr			3 Mus	,	3
CORE	[HPER 103 Lifetime Wellness]	2	CORE	The state of the s	3 Mus	0 0 0	2
CORE	[HPER 101 Physical Activity]	1		2	3 Mus		2
CORE	[Eng 281 or 282 American Lit]	3	2nd Seme	ctor	Mus	240 Recital Attendance	Cr
Educ 200	Orientation to Educ II	1	Mus 335		COR	[Hist 110 U.S. History]	3
Educ 302	Exceptional Child				2 Educ	200 Orientation to Educ II	1
Educ 302	exceptional Cilia	2	Educ 402		4 Educ		2
		21	Educ 432		2 Mus		2
			Educ 420	Intro to Counseling*	Psy 3		3
2nd Seme			OR		1 Sy 3	Adolescent I sychology	21
Apply for	admission to Teacher Education		Psy 412	Meas & Eval in Educ	2		21
Mus 212	Music Theory	3	Educ 464	Student Teaching	8		
Mus 208	Applied Music Major Piano	2			6 2nd 9	semester	
Mus 106	Applied Music Voice	1	[] Departr	nent Recommendation	ZIIG S		
Mus 121	Choir	2		taken at night the semester prior t		for admission to Teacher Education	
Mus 240	Recital Attendance	Cr	Student Te			232	
CORE	[Hist 110 U.S. History]	3	Student le	acining	OR		
CORE	[Comm 100 Oral Comm]	3	For addition	onal information contact:	Mus		1
			Mr. Pete H		Mus		3
CORE	[Bio 101 General Biology]	4		usic Building 216	Mus	208 Applied Music Major Piano	2
CORE	[PSc 120 Gov't: U.S., State, Lo		Phone: 62		Mus	292 Band	2
		3	THORIE. 02	.5-9310	Mus	240 Recital Attendance	Cr
		21	Bachelor o	of Science in Education	COR		3
			Major Co		COR		4
Junior Yea	r		Music Ma		COR		3
1st Semes	ter				COR		3
Pass medi	a competencies			ching Field	COR	[Ling 201 Of 202 Afficial Lit]	21
Mus 182	Conducting	2	Plano Maj	or With Instrumental Emphasis			41
Mus 311	History of Music	3	Freshman	Year			
Mus 420	Form & Analysis	3	1st Semes		lunio	r Year	
Mus 407	Applied Music Major Piano	2	Course	Hour		emester	
	· · ·						
Mus 305	Applied Music Voice	1	Mus 111	Music Theory		media competencies	0
Mus 321	Choir	2	Mus 231		Mus		2
Mus 240	Recital Attendance	Cr	OR		Mus		
Educ 329	Pedagogical Theory, Methods		Mus 233		1 Mus	,	3
	Practices	4	Mus 207	Applied Music Major Piano	2 Mus	,	3
Educ 321	Microteaching	2	Mus 191	Band	2 Mus	407 Applied Music Major Piano	2
Educ 423	Classroom Management	2	Mus 240	Recital Attendance	cr Mus		2
	to the same at	21	CORE		3 Mus		Cr
			Psy 120		1 Educ		
2nd Seme	ster		CORE		3	Practices	4
		2			3 Educ		
Mus 444	Advanced Conducting	,					
Mus 444 Mus 312	Advanced Conducting	2	Psy 100	, 0,		O	2
Mus 312	History of Music	3	Educ 100	Orientation to Educ I	1 Educ		2
				Orientation to Educ I			

2nd Seme			2nd Seme	ester		CORE	[PSc 120 Gov't: U.S., State,	Locall
Mus 444	Advanced Conducting	2	Mus 112	Music Theory	2		in the second se	3
Mus 306	Applied Music Woodwind/Bras	s 1	Mus	Instrumental Elective	2	Psy 301	Adolescent Psychology	3
Mus 312	History of Music	3	Mus 109	Sight Singing & Ear Training	2		,	21
Mus 408	Applied Music Major	2	Mus 208	Applied Music Voice	2			M. 3. 3.
Mus 392	Band	2	Mus 114	Class Piano	1	C		
Mus 240	Recital Attendance	Cr	Mus 121	Choir	2	Senior Ye		
Mus 333	Music in Elem Grades	2	Mus 240	Recital Attendance	Cr	1st Seme		
Mus 431	Orchestration	3	CORE	[Eng 102 Comp II]	3		Student Teaching. All courses i	
CORE	[PSc 120 Gov't: U.S., State, Loc	-	CORE	[HPER 103 Lifetime Wellness]	2		d except for Professional Seme	
CORE		3	CORE	[HPER 101 Physical Activity]	1	Mus 421 Mus 432	Choir	2
CORE	[Art 110 or Th 110 Apprec]	3	CORE	[Math 110 Intro to Col Math]	3		Music in Public School	2
		21			20	Mus 408	Applied Music Voice	2
						Mus 450 Mus 240	Senior Recital	Cr
Senior Yea			Sophomoi			CORE	Recital Attendance	Cr
1st Semest			1st Semes			Educ 401	[Phys 100 Fund of Phys Sci]	5
Apply for S	Student Teaching. All courses mus	t be	Mus 310	Vocal Techniques	2	Luuc 401	Use of Comp Software in Cl	ass (or
	d except for Professional Semeste		Mus 213	Class Piano	1		computer course approve	
Mus 411	Marching Band Methods	1	Mus 211	Music Theory	3	Educ 422	music dept.)	2
Mus 342	Band	2	Mus 210	Sight Singing & Ear Training	2	Educ 422	Teaching Reading in Sec Sch	ools 2
Mus 432	Music in Public School	2	Mus 207	Applied Music Voice	2	CORE CORE	[Soc 342 Comparative Cultur	
Mus 408	Applied Music Major Piano	2	Mus 121	Choir	2	COKE	[Hist 320 U.S. History]	3
Mus 450	Senior Recital	Cr	Mus 240	Recital Attendance	Cr			21
Mus 240	Recital Attendance	Cr	CORE	[Eng 281 or 282 American Lit]	3			
Psy 310	Educational Psychology	2	Educ 200	Orientation to Educ II	1	2nd Seme	ester	
CORE	[Phys 100 Fund of Phys Sci]	5	Educ 302	Exceptional Child	2	Mus 335	Teaching Music in Sec School	ol 2
Educ 401	Use of Comp Software in Class		CORE	[Econ 180 Amer Econ System]	3	Educ 402	Foundations of Educ	2
	computer course approved b				21	Educ 432	Critical Issues in Educ	2
	music dept.)	2				Educ 420	Intro to Counseling*	
Educ 422	Techniques of Reading	2	2nd Seme			OR	8	
CORE	[Soc 342 Comparative Cultures]	3	Apply for	Admission to Teacher Education		Psy 412	Meas & Eval in Educ	2
		21	Mus 214	Class Piano	1	Educ 464	Student Teaching	8
	THE PROPERTY OF THE PROPERTY OF		Mus 212	Music Theory	3		O	16
2nd Semes			Mus 208	Applied Music Voice	2	[] Departr	nent Recommendation	
Mus 335	Teaching Music in Sec School	2	Mus 121	Choir	2	*Must be	taken at night prior to Student Te	aching
Educ 402	Foundations of Educ	2	Mus 240	Recital Attendance	Cr		0 1	0
Educ 432	Critical Issues in Educ	2	CORE	[Hist 110 U.S. History]	3	For addition	onal information contact:	
Educ 420	Intro to Counseling		CORE	[Bio 101 General Biology]	4	Mr. Pete F	lavely	
OR			CORE	[Comm 100 Oral Comm]	3	Office: M	usic Building 216	
Psy 412	Meas & Eval in Educ	2	CORE	[Art 110 or Th 110 Apprec]	3	Phone: 62	5-9318	
Educ 464	Student Teaching	8			21			
П D	D. L.	16				Bachelor o	of Science in Education	
[] Departm	ent Recommendation		Junior Year			Major Cod	de 0832	
For additio	nal information contact:		1st Semest			Music Maj		g Field
Mr. Pete H				Competencies	2	Instrumen	tal Major	
Office: Mu	usic Building 216		Mus 182	Conducting Techniques	2	Farahaan .	V	
Phone: 625			Mus 311	History of Music	3	Freshman		
			Mus 420	Form & Analysis	3	1st Semest		
	Science in Education		Mus 407 Mus 305	Applied Music Voice Piano	2	Course		Hours
Major Cod			Mus 321	Choir	1	Mus 111	Music Theory	3
Music Majo	0 0	eld	Mus 240	Recital Attendance	2 Cr	Mus 207	Applied Music Major	2
Vocal Majo	r		Educ 329	Pedagogical Theory, Methods &		Mus 113	Class Piano	1
Freshman Y	(ear		Luuc 329	Practices		Mus 207	Applied Music Major	2
1st Semeste			Educ 321	Microteaching	4	Mus 113	Class Piano	
Course	Но	irc	Educ 423	Classroom Management	2 2	Mus 191		
Mus 111	Music Theory	3	Luuc 423	Classicolii Mariagement		OR	Band/Orchastus	2
Mus 207	Applied Music Voice	2			21	Mus 151 Mus 231	Band/Orchestra	2
Mus 113	Class Piano	1	2nd Semes	ter		OR		
Mus 121	Choir	2	Mus 444	Advanced Conducting	2		String/Porcussion Taska:	4
Mus 240	Recital Attendance	Cr	Mus 312	History of Music	2 3	Mus 233	String/Percussion Techniques	1
CORE	[Eng 101 Comp I]	3	Mus 408			Mus 240	Recital Attendance	Cr
Psy 120	College Orientation	1	Mus 306	Applied Music Voice Piano	2	CORE Psy 120	[Eng 101 Comp I]	3
CORE	[Mus 110 Music Apprec]	3	Mus 321	Choir	1 2	Psy 120	College Orientation	1
	General Psychology	3	Mus 240	Recital Attendance	Cr	CORE Pov 100	[Mus 110 Music Apprec]	3
Educ 100	Orientation to Educ I	1	Mus 333	Music in Elem Grades	2	Psy 100 Educ 100	General Psychology	3
2000 100	Charles to Edde I	19	Mus 431	Orchestration	3	Luuc 100	Orientation to Educ I	1
			77103 731	O'C'IESTI UTOT)			20

Music/Paralegal

2nd Seme		2	OR	Barad an Oneheatra	2
Mus 112	Music Theory	3	Mus 351	Band or Orchestra	2
Mus 109	Sight Singing & Ear Training	2	Mus 240	Recital Attendance	Cr
Mus 208	Applied Music Major	2	Educ 329	Pedagogical Theory, Methods	
Mus 114	Class Piano	1		Practices	4
Mus 192			Educ 321	Microteaching	2
OR			CORE	[Art 110 or Th 110 Apprec]	3
Mus 152	Band or Orchestra	2	Educ 423	Classroom Management	2
Mus 232					23
OR					
Mus 234	Brass/Woodwind Techniques	1	2nd Semes	ster	
Mus 240	Recital Attendance	Cr	Mus 444	Advanced Conducting	2
CORE	[Eng 102 Comp II]	3	Mus 312	History of Music	3
CORE	[HPER 103 Lifetime Wellness]	2	Mus 408	Applied Music Major	2
CORE	[HPER 101 Physical Activity]	1	Mus 392		
CORE	[Math 110 Intro to Col Math]	3	OR		
COME	[main from the community	20	Mus 352	Band or Orchestra	2
			Mus 240	Recital Attendance	Cr
			Mus 333	Music in Elem Grades	2
Sophomoi			Mus 431	Orchestration	3
1st Semes	ster		CORE	[PSc 120 Gov't: U.S., State, Loc	
Mus 121			COME	[1:50:120:001:11:01:01]	3
OR			Educ 422	Teaching Reading in Sec School	
Mus 310	Choir or Vocal Techniques	2	Luuc 422	leaching heading in see sense	19
Mus 213	Class Piano	1			.,
Mus 211	Music Theory	3	Conion Voz		
Mus 210	Sight Singing & Ear Training	2	Senior Yea		
Mus 207	Applied Music Major	2	1st Semes		work
Mus 231				Student Teaching. All course	
OR				ompleted except Professional Seme	ester.
Mus 233	String/Percussion Techniques	1	Mus 391		
Mus 191			OR	D 1 0 1 1	2
OR			Mus 351	Band or Orchestra	2
Mus 151	Band or Orchestra	2	Mus 411	Marching Band Methods	2
Mus 240	Recital Attendance	Cr	Mus 432	Music in Public School	2
CORE	[Eng 281 or 282 American Lit]	3	Mus 408	Applied Music Major	2
Educ 200	Orientation to Educ II	1	Mus 450	Senior Recital	Cr
Educ 302	Exceptional Child	2	Mus 240	Recital Attendance	Cr
CORE	[Econ 180 Amer Econ System]	3	Psy 310	Educational Psychology	2
00		22	CORE	[Phys 100 Fund Phys Sci]	5
			CORE	[Soc 342 Comparative Cultures	[s] 3
0 10			Educ 401	Use of Comp Software in Clas	s (or
2nd Semo				computer course approved	by
	admission to Teacher Education	4		music dept.)	2
Mus 214	Class Piano	1	CORE	[Hist 320 U.S. History]	3
Mus 212	Music Theory	3		29.34	23
Mus 208	Applied Music Major	2			
Mus 232			2nd Seme	ester	
OR			Mus 335	Teaching Music in Sec School	2
Mus 234	Brass/Woodwind Techniques	1	Educ 402	Foundations of Educ	2
Mus 192			Educ 432	Critical Issues in Educ	2
OR			Educ 420	Intro to Counseling*	
Mus 152	Band or Orchestra	2	OR	The second secon	
Mus 240	Recital Attendance	Cr	Psy 412	Meas & Eval in Educ	2
CORE	[Hist 110 U.S. History]	3	Educ 464	Student Teaching	8
CORE	[Bio 101 General Biology]	4	Lauc 101	Student reacting	16
CORE	[Comm 100 Oral Comm]	3	[] Departs	ment Recommendation	
Psy 301	Adolescent Psychology	3		taken at night prior to Student Teac	ching.
		22	wast be	taken at ingre prior to student real	8.
			For additi	ional information contact:	
Junior Ye	ar		Mr. Pete I	Havely	
1st Seme			Office: N	Ausic Building 216	
	dia Competencies		Phone: 6	25-9318	
Mus 182	Conducting Techniques	2			
Mus 311	History of Music	2 3	Para	legalStudies	
Mus 420	Form & Analysis	3			
Mus 407	Applied Music Major	2	Mansion	115, 625-9564	
Mus 391	Applied Masic Major	-	Faculty	Tate - Head, Yates	
11143 331				, , , , , , , , , , , , , , , , , , , ,	

The paralegal program is designed for the student seeking a career as a legal assistant working under the direction and supervision of an attorney in private practice, government service or legal aid. However, the knowledge and skills acquired in the paralegal program are beneficial to students in the areas of law enforcement, prelaw, business law and political science. Students who choose to learn more about the legal system and how to develop their own skills in legal research for personal enrichment are also encouraged to enroll.

No major or degree is now offered in paralegal studies, but a student enrolled in the paralegal program may obtain an associate of arts degree with an emphasis in paralegal studies. Paralegal studies may also be used as a minor for a bachelor of arts or bachelor of science degree. Students wishing to take only classes in paralegal studies may receive recognition for successfully completing 21 hours of course work. The required courses and suggested electives are listed under the requirements for the minor. Students must have an adviser in paralegal studies.

Minor in Paralegal Studies

Semester Hours PLS 201 Intro to Legal Assistance 3 PLS 302 Legal Research **Electives from the following:** 15 PLS 298 Topics in Paralegal Studies 3 3 PLS 311 Property* 3 PLS 312 Civil Litigation* PLS 320 Family Law* 3 Wills, Trusts and Probate* PLS 401 3 GB 301 Business Law I GB 302 Business Law II PSc 431 Constitutional Law I PSc 432 Constitutional Law II PLS 491 Internship** 3 PLS 498 Senior Seminar** 3 PLS 499 Independent Study** OR One of the following: LE 250 Criminal Law PSc 322 International Law GB 411 Labor Law *Highly Recommended

**See Prerequisites Suggested Order of Study

Associate of Arts Major Code 7999

Emphasis in Paralegal Studies

(This is a general associate of arts degree, NOT a paralegal degree)

Philosophy/Physics

Freshman	Year	
1st Semes	ster	
Course		Hours
PLS 201	Intro to Legal Assistance	3
PLS 302	Legal Research	3
CORE	[Eng 101 Comp I]	3
CORE	[PSc 120 Gov't: U.S., State, Lo	ocal]
		3
Psy 120	College Orientation	1
CORE	[HPER 103 Lifetime Wellness]	2
CORE	[HPER 101 Physical Activity]	1
		16
2nd Seme	ester	
CORE	[Eng 102 Comp II]	3
CORE	[Hist 110 U.S. History 1492-18	77]
OR		
CORE	[Hist 120 U.S. History 1877- Present]	3
CORE	[Math 110 Intro to Col Math]	3
CORE	[Bio 101 General Biology]	4

Upper Division Electives

Sophomore	Year
1st Comosto	

ist Seme	ster
CORE	[Econ 180 Amer Econ System]
CORE	[Phys 100 Fund of Phys Sci]
CORE	[Humanities and Fine Arts]
PLS	Upper Division Electives

2nd Semester

CORE	[Comm 100 Oral Comm]	1
CORE	[Literature]	1
CORE	[Humanities and Fine Arts]	3
PLS 491	Internship	3
PLS	Upper Division Elective	3
		15
[] Donort	mont Docommondation	

[] Department Recommendation

Suggested electives are Civil Litigation; Family Law; Property; Wills, Trusts and Probate.

For additional information contact: Dr. Michael Yates

Office: Mansion 202 Phone: 625-9333

Philosophy

Hearnes Hall 312, 625-9659

Faculty Lambert - Head, Brown, Harder

Philosophy deals with basic questions from all areas of life and thought--science, religion, art, morality and politics--and helps students refine their views on these subjects. Most importantly, philosophy teaches students how to think: how to analyze problems into their essential elements, how to decide which proposed solution to a problem is supported by the best evidence, how to separate relevant from irrelevant points and how to state issues clearly and

precisely. While some philosophy students go to graduate school and become professional philosophers, most go on to careers in such areas as law, medicine, theology, business, government and public service. Philosophy students are highly successful in gaining admittance to law schools, medical schools, graduate schools of management and theological seminaries.

The department offers a minor in philosophy, which consists of 18 credit hours. Students are required to complete a course in Critical Thinking (Phil 140), a course in Ethics (Phil 212, PSc 411 or a suitable Selected Topics Course) and two courses in the History of Philosophy (Phil 301 and 302). Two courses are elective, at least one of which must be at the 300 level or above.

Physics

16

5

3

6

Reynolds Hall 210, 625-9376

Faculty Baiamonte - Head, Knapp, Phillips, Sloan, Strobel

Physics graduates obtain a strong diversified background in science and mathematics which will qualify them to enter various areas of employment in industry, government or secondary education, or for entrance into graduate programs in physics and engineering. Students who plan to do graduate work in engineering should, with the help of a faculty adviser, select their free electives in the area they plan to enter.

The physics area of the physical science department participates in cooperative two-year pre-engineering programs which allow students to complete the first two years of an engineering degree at Missouri Southern and then transfer to an engineering school to complete the remaining two years of the degree. (See page 143)

Bachelor of Science with a Major in Physics

	Semester	Hours
Core Curr	iculum Requirements	
(page 35)	51*	43
Physics Re	quirements	36
Phys 250	General Physics I**	5
Phys 260	General Physics II**	5
Phys 301	Modern Physics**	4
Phys 322	Classical Mechanics**	3
Phys 341	Thermal Physics**	4
Phys 372	Electronic Circuits**	4

Phys 381	Intermediate Physics	
	Laboratory**	3
Phys 401	Electricity and	
	Magnetism**	4
Phys 452	Quantum Mechanics**	
OR		
Phys 480	Selected Topics in Physi	CS
	& Engineering	3
Phys 498	Seminar	1
Supporting	Requirements	26
Chem 101	General Chemistry I**	5
Math 150	Calculus with Analytical	
	Geometry I**	5
Math 250	Calculus with Analytical	2.5
	Geometry II**	5
Math 260	Calculus with Analytical	
	Geometry III**	5
Math 322	Differential Equations**	3
Comp 120	Fortran	3
Electives***		23
	1	28****

*Required physics, chemistry and mathematics courses satisfy major requirements and 8 hours of the Core Curriculum.

**See Prerequisites

***Suggested Electives (Chem 102, Comp 200, Math 351, Math 431 and Phys 480)
****Must include at least 40 upper division (300 - 400 level) hours.

Bachelor of Science in Education with a Major in Physics

Plan A

One of Two Teaching Fields

Samester Hours

	Semester F	iours
Core Curri	culum Requirements	
(page 35) 5	51*	36
Physics Red	quirements	22
Phys 250	General Physics I**	5
Phys 260	General Physics II**	5
Phys 301	Modern Physics**	4
Phys 322	Classical Mechanics**	3
Phys 381	Intermediate Physics	
	Laboratory**	3
Phys 498	Seminar	2
Supporting		31
Chem 101	General Chemistry I**	5
Geol 300	Environmental Geology	4
Bio 101	General Biology	4
Math 150	Calculus with Analytical	
	Geometry I**	5
Math 250	Calculus with Analytical	
	Geometry II**	5
Math 260	Calculus with Analytical	
	Geometry III**	5
Comp 120	Fortran (in place of Educ	
	401)	3

Physics

F1 .: 6						CORE	[Humanities and Fine Arts]	2
(page 118)	ertification Requirements	39	Sugges	sted Orders of Stud	dy	CORE	[Humanities and Fine Arts]	3 16-15
	hing Field (some fields ex		Bachelor of	Science				
30 hours)	ining Freid (Some freids ex	30	Major Cod			Senior Yea		
,	1:	58***	Physics Ma	jor		1st Semes Phys 401	Electricity & Magnetism	
*Required p	physics, chemistry, math	ema-	Freshman \	/ear		OR	Electricity & Magnetism	
	and psychology courses		1st Semeste		HAS STEEL	Phys 381	Intermediate Physics Lab	4-3
	uirements and 15 hours of	of the	Course		Hours	CORE	[Humanities and Fine Arts]	3
Core Curricu			Math 150	Calculus I General Chemistry I (Alg & Tr	5 rig) 5	CORE	[PSc 120 Gov't: U.S., State, Lo	
**See Prerec			CORE	[Eng 101 Comp I]	3	Phys or M	ath Elective	3
***Varies wit	th 2nd field		Phys 140	Essential Skills in Physics	3	Electives	atti Elective	3
Pachala	r of Science with	-	Psy 120	College Orientation	1			16-15
		a			17	0 10		
Major in	Physics		and Comoo	tor		2nd Seme Phys 452	Quantum Mechanics	
Plan B	Single Teaching Field	d	2nd Semes Phys 250	General Physics I (Math 150)	5	OR	Quantum Mechanics	
	Semester F	Hours	Math 250	Calculus II (Math 150)	5	Phys 480	Selective Topics	3
	ulum Requirements		Elective	[Chem 102 General Chem II]	5	Phys 498	Seminar	1
(page 35) 51°		36	CORE	[Eng 102 Comp II]	3	CORE	[International Cultural Studies]	
Physics Requ		33			18	Electives		9
	General Physics I**	5	Sophomore	Vear		() Prerequ	isite	10
	General Physics II** Modern Physics**	4	1st Semest			[] Departr	nent Recommendation	
	Statics**	3	Phys 260	General Physics II (Phys 250)	5	Students s	should enroll in Comp 120 Comp	uting
	Classical Mechanics**	3	Math 260	Calculus III (Math 250)	5	II before t	he junior year.	
	Thermal Physics**	4	Comp 120		3		onal information contact:	
	Electronic Circuits	4	CORE CORE	[HPER 103 Lifetime Wellness] [Hist 110 U.S. History]	2 3	Dr. Russe		
	Intermediate Physics		CORL	[First Fig C.S. Firstory]	18	Phone: 62	eynolds Hall 208	
1	Laboratory**	3				riione. 02	3-9/19	
	Seminar	2	2nd Semes			Bachelor o	of Science in Education	
	Requirements	36	Phys 322	Classical Mechanics		Major Co		
	General Chemistry I**	5	OR Phys 341	Thermal Physics	3-4	Physics M	ajor (Plan B) ching Field	
	General Chemistry II**	5	Phys 372	Electronic Circuits	4		ally a complete the control of	
	General Biology	4	Math 322	Differential Equations	3	Freshman		
	Environmental Geology Calculus with Analytical	4	CORE	[Hist 120 or Hist 320 U.S. Hist	tory]	1st Semes Course		Hours
	Geometry I**	5	CODE	[F 400 A F C]	3	Psy 100	General Psychology	3
	Calculus with Analytical	3	CORE CORE	[Econ 180 Amer Econ System] [HPER 101 Physical Activity]] 3	Math 150	, 0,	5
	Geometry II**	5	COKL	[THER TOT THYSICAL ACTIVITY]	17-18	CORE	[Eng 101 Comp I]	3
	Calculus with Analytical					Phys 140	Essential Skills in Physics	3
	Geometry III**	5	Junior Year			Psy 120 Educ 100	College Orientation Orientation to Education I	1
	Computing I (in place of		1st Semest			CORE	[HPER Lifetime Wellness]	2
	Educ 401)	3	Phys 301 Phys 381	Modern Physics Intermediate Physics Lab	4			18
	ertification Requirements		OR	intermediate rifysics Eas		2-4 6	-4	
(page 118)		39	Phys 401	Electricity & Magnetism	3-4	2nd Seme	General Chemistry I	5
*Poquired n	physics shamistry math	144	CORE	[Bio 101 General Biology		Math 250		5
	ohysics, chemistry, math and psychology courses		OR CORE	[Humanities and Fine Arts]	2	CORE	[Eng 102 Comp II]	3
	quirements and 15 hours		CORE	[Psy 100 General Psychology]	3	Phys 250	General Physics I (Math 150)	5
Core Currice		or tric	OR	[13y 100 General 13yenology]				18
**See Prerec			CORE	[Soc 110 Sociology]	3	Summer S	Session	
	d Electives (Math 322, Phy	ys 300			17-18	Bio 101	General Biology	4
and Geol 110			and Como	of the state of th				7
Minor in	n Physics		2nd Semes Phys 341	Thermal Physics		Sophomo	re Year	
77121101 11	Semester I	Hours	OR OR			1st Semes		
Phys 250	General Physics I	5	Phys 322	Classical Mechanics	4-3	Math 260	Calculus III (Math 250)	5
	General Physics II	5	Phys 452	Quantum Mechanics		Phys 260	General Physics II (Phys 250)	5
		,	OR	Salactiva Tanics	3	Geol 300 Educ 200	Environmental Geology Orientation to Education II	4
Physics Uni	per Division Electives							
	per Division Electives Phys 300)	8	Phys 480 Math	Selective Topics Elective				
(Excluding P		8 18	Math CORE	Elective [Comm 100 Oral Comm]	3 3	Psy 301	Adolescent Psychology	3 18

Political Science

2nd Como	ator.	
2nd Semes	Admission to Teacher Education	
Phys 372		4
Phys 322 OR	Classical Mechanics	
Phys 341	Thermal Physics	3-4
Educ 302	The Exceptional Child	2
CORE	[Comm 100 Oral Comm]	3
Comp 115	Computing I	3
CORE	[HPER 101 Physical Activity]	1
		6-17
Summer S	ession	
Chem 102	General Chemistry II	5
Junior Year		
1st Semest		
Pass Media	Competencies	
Phys 312	Statics	3
Phys 301	Modern Physics	4
Educ 321	Microteaching	2
Educ 329	Pedagogical Theory, Methods	
Day 210	Practices	4
Psy 310 Educ 423	Educational Psychology (Psy 11	
Educ 423	Classroom Management	17
	tre parking de As Edit agus a re	
2nd Semes		
Apply for	student teaching. All course v	vork
mester cou	ompleted except for Professional	se-
Phys 341	Thermal Physics (4)	
OR	mermai r nysies (n)	
Phys 322	Classical Mechanics (3)	4-3
CORE	[Humanities and Fine Arts]	3
CORE	[Humanities and Fine Arts]	3
CORE	[PSc 120 Gov't: U.S., State, Loc	
Educ 422	Teaching Reading in the Sec	3
	School	2
CORE	[Hist 110 U.S. History]	3
		7-18
Senior Year	more more relies some styre og	
1st Semeste		
Phys 381	Intermediate Physics Lab	3
Phys 498	Seminar	2
CORE	[Econ 180 Amer Econ System]	3
CORE	[Humanities and Fine Arts]	3
CORE	[Hist 120 or Hist 370 U.S. Histor	,
CORE	[International Cultural Studies]	3
CORL	[international Cultural Studies]	17
2nd Semes		
Educ 333	Teaching Science in Sec Schools	
Educ 402	Foundations of Education	2
Educ 432 Educ 462	Critical Issues Student Teaching Sec	2 8
Select One		0
Educ 412	Individual Curriculum	
	Development (2)	
Educ 420	Introduction to Counseling (Nig	ght
	only, must be taken semester	
	prior to student teaching.) (3)	
Psy 412	Measurement and Evaluation in	0.5
	Education and Psychology (2)	
	1	7-18

() Prerequisites [] Department Recommendation

For additional information contact: Dr. Russell Phillips Office: Revnolds Hall 208

Political Science

Mansion 115, 625-9564

Phone: 625-9719

Faculty Tate - Head, St. Clair, Simpson, Yates, Youst

The bachelor of arts degree with a major in political science is appropriate for those students seeking to do graduate work in political science, enter professional schools of law or public administration, join the public service or work in community service as well as general career options. A bachelor of science in education degree with a major in social studies - political science emphasis - certifies a student to teach on the secondary school level. A minor in political science is available for students majoring in other disciplines. In addition, see page (76) for a social science minor or the social studies in secondary education minor.

Core Curriculum requirements and Missouri statute requirements are met by PSc 120.

PSc 120 is a prerequisite for all other political science courses.

Bachelor of Arts with a Major in Political Science

128***

	Semeste	er Hours
Core Cu	rriculum Requirements	
(page 35	5) 51*	48
Comput	er Literacy Requirement -	
determin	ned by the social science	
departm	ent	2-3
Foreign	Language (four courses in o	one
language	2)	12
Political	Science Requirements	36
PSc 120	Gov't: U.S., State, Local	3
PSc	Electives** chosen with	
	approval of political scien	ice
	adviser	33
Electives		29-30

*Political Science 120 satisfies major requirements and 3 hours of Core Curriculum.

**See Prerequisites

***Must include at least 40 upper division (300 - 400 level) hours.

Bachelor of Science in Education with a Major in Social Studies

Political Science Emphasis Plan B Single Teaching Field

	0	
	Semester I	Hours
Core Curr	iculum Requirements	
(page 35)		33
Political S	cience Requirements	15
PSc 120	Gov't: U.S, State, Local	3
PSc	Upper Division Electives	12
Supporting	g Requirements	36
Hist 110	U.S. History 1492-1877	3
Hist 120	U.S. History 1877-Present	
OR	Carlot and the second	
Hist 320	U.S. History 1877-Present	3
Hist 130	Western Civilization to 16	
		3
Hist 140	Western Civilization Since	9
	1660	3
Hist	Upper Division U.S.** (No	ot
	320)	6
Hist	Upper Division East	
	Asian**	3
Soc 110	Intro to Sociology	3
Soc	Upper Division Elective**	3
Geog 211	Regions and Nations	3
Geog	Upper Division Elective	3
Econ 180	Amer Econ System	3
Electives		-4
Education	Certification Requirements	
(see page 1	118)	40-41
		128
*Required	nolitical science history se	ociol

*Required political science, history, sociology and economics courses satisfy major requirements and 18 hours of Core Curriculum.

**See Prerequisites

Minor in Political Science

	Semester	Hours
PSc 120	Gov't: U.S., State, Local	3
PSc	Electives*	18
		21
444 .1	1 1.1 1 /	11.1

*Must be chosen with approval of a political science adviser.

Suggested Order of Study

Bachelor of Arts Major Code 2207 Political Science Major

Freshman Year 1st Semester Course Hours Foreign Language 3 CORE [Eng 101 Comp I] 3 CORE [Hist 110 U.S. Hist 1492-1877] 3

Sociology

CORE	[Math 110 Intro to Col Math]	3	Bachelor of	General Studies	
CORE [Comm 100 Oral Comm]			Major Code	e 4999	
Psy 120	College Orientation	1	Prelaw		
		16	Freshman Y	ear ear	
			1st Semeste		
2nd Sen	nester		Course	Hou	urs
	Language	3	CORE	[Eng 101 Comp I]	3
CORE	[Eng 102 Comp II]	3	CORE	[Hist 110 U.S. Hist 1492-1877]	3
CORE	[Hist 120 U.S. Hist 1877-Present]		CORE	[Comm 100 Oral Comm]	3
OR CORE	[Hist 320 U.S. Hist 1877-Present]	3	CORE	[Soc 110 Intro to Sociology] [HPER 103 Lifetime Wellness]	3 2
CORE	[Bio 101 General Biology]	4	Psy 120	College Orientation	1
CORE	[Humanities and Fine Arts]	3	1 Sy 120	Conege Orientation	15
		16			
			2nd Semes		10
Sophom	ore Year		CORE	[Eng 102 Comp II]	3
1st Sem	ester		CORE	[Math 131 Finite Math]	3 4
PSc 120		3	CORE CORE	[Bio 101 General Biology] [English Lit]	3
CORE	[English Lit]	3	Psy 100	General Psychology	3
	[Phys 100 Fund of Phys Sci]	5	134 100	General 1 sychology	16
CORE	[HPER 103 Lifetime Wellness]	2			
CORE	[HPER 101 Physical Activity]	1	Sophomore	Year	
		17	1st Semeste		2
			CORE	[English Lit]	3
2nd Ser	mester		Phil 201 CORE	Intro to Philosophy [PSc 120 Gov't: U.S., State, Loca	
CORE	[Econ 201 Prin of Econ-Macro]	3	CORE	[F3C 120 GOV 1. O.S., State, Loca	3
PSc	[Upper Division Elective approve		CORE	[Phys 100 Fund of Phys Sci]	5
	by adviser]	3	Acct 201	Prin of Accounting I	3
	Language	3			17
CORE Elective	[Soc 110 Intro to Sociology]	3 5			
Elective	5	17	2nd Semes		1
		.,	CORE	[HPER 101 Physical Activity] Prin of Accounting II	1 3
Junior \	loar		Acct 202 CORE	[Humanities and Fine Arts]	3
1st Sem				Intro to Microcomputer Use	,
PSc	[Upper Division]	6	OR		
CORE	[International Cultural Studies]	3	Comp 115	Computing I	3
	uter Literacy course selected with		CORE	[Econ 180 Amer Econ System]	3
	's approval]	3	CORE	[Hist 120 U.S. Hist 1877-Present]	
CORE	[Humanities and Fine Arts]	3	OR	[Hist 320 U.S. Hist 1877-Present]	3
		15	CORE	[HIST 320 O.S. HIST 1077-Fresent]	16
2 1 6					
2nd Sei PSc	[Upper Division]	9	Junior Year		
Elective		8	1st Semest	ter	
Licetive	.5	17	Eng 315	Exposition	3
			CORE	[International Cultural Studies]	3
Senior '	Year		Electives*		10 16
1st Sem					10
PSc	[Upper Division Electives]	9	2nd Semes	ster	
Elective	es [Upper Division]	6	Electives*		16
		15			
			Senior Yea		22
2nd Se		-	ist and 2n	d Semesters*	32 128
PSc	[Upper Division Elective]	6	*Curricula	um should be planned with the pre	
Elective	es [Upper Division]	10 16	adviser. Th	he major may be selected within	al-
*Also r	neets a Core Curriculum requiremer		most any a	academic discipline emphasizing	aca-
	artment Recommendation			lls which will enable the studen	
				rell on the Law School Admission	
	ditional information contact:			e rigorous studies of law school.	
Dr. Do	nald R. Youst		major will	be determined by the student's in	ner-

ests and the type of law in which he or she plans

to specialize.

For additional information contact: Mrs. Annetta St. Clair

Office: Mansion 204 Phone: 625-9547

Sociology

Mansion 115, 625-9564

Faculty Tate - Head, Conboy, Gubera, Krueger, Miller

A bachelor's degree with a major in sociology prepares the student for a variety of occupations and graduate programs. Selecting from three bachelor's degree programs including a bachelor of science in education, the student may choose to pursue many careers, for example, those in human and social services, public safety occupations or teaching. Advanced graduate or professional school training could also be a choice for the student who successfully completes one of the bachelor degree programs. A sociology minor with an emphasis in social work is offered with classes focusing on human and social services. In addition, a sociology minor provides students majoring in other areas with special interpersonal, group and organizational knowledge and skills.

See page 76 for a minor in social sciences or the social studies in secondary education minor.

Sociology 110 is a prerequisite to many upper division courses in sociology.

Certain sociology courses may be used to satisfy Core Curriculum requirements. Sociology 110 is an elective for the requirement in Area 3C, Natural and Behavioral Sciences; either Sociology 155 or 342 meet the requirement in Area 5, International Cultural Studies.

Bachelor of Arts with a Major in Sociology

	0.	
	Semester F	lours
Core Curri	culum Requirements	
(page 35) 5		45
	Literacy Requirement -	
determined	d by the social sciences	
departmen		2-3
Foreign La	nguage (four courses in one	9
language)		12
Sociology	Requirements	30
Soc 110	Intro to Sociology	3
Soc 210	Social Problems**	3
Soc 311	Social Stratification**	3
Soc 342	Comparative Cultures**	3

Office: Mansion 112 Phone: 625-9588

Sociology

Soc 431	Sociological Research		Sociolo	gy Emphasis		Soc 332	Intro to Social Work II**	3
C 100	Methods**	3	Plan B	Single Teaching Fie	ld	Soc 496	Internship**	3
Soc 482	Sociological Theory**	3		Semester				21
Soc	Electives (3 hrs. must be		Core Cur	riculum Requirements	riours	*See Pre	erequisites	
Day 211	upper division)	12	(page 35)		33	**Admis	ssion dependent on departm	nental
Psy 311 OR	App Stat**			Requirements	21	commit	tee approval.	
Math 310	Elamontany Statistics **	2	Soc 110	Intro to Sociology	3			
	Definition of the Elementary Statistics ** In the Elementary Stat	3	Soc 221	Marriage and Family	3	•		
adviser)*	**		Soc 210	Social Problems**	3	Sugge	ested Order of Stud	y
Electives		15 20-21	Soc 342	Comparative Cultures**	3	Bachelor	of Arts	100
Liectives	12	28****	Soc	Electives (6 hours upper		Major Co		
*Require	d sociology course 110 and			division)**	9	Sociology	Major	
342 satist	ies six hours of Core Curric	ulum		g Requirements	36	Freshman	Year	
requirem		ululli	Hist 110	U.S. History 1492-1877	3	1st Semes	ster	
	erequisites		Hist 120	U.S. History 1877-Preser	nt	Course		Hours
***A mir	or is highly recommended.		OR			Soc 110*	Intro to Sociology	3
****Mus	t include at least 40 upper div	vision	Hist 320	U.S. History 1877-Preser	nt 3	CORE	[Eng 101 Comp I]	3
(300 - 400	level) hours.		Hist 130	Western Civilization To		CORE	[Hist 110 U.S. Hist 1492-1877] [Humanities and Fine Arts]	3
		o tilla	11:-4 440	1660	3	Foreign La		3
DI.	1		Hist 140	Western Civilization From		Psy 120	College Orientation	1
	lor of Science with	a	Hist	1660	3			16
Major	in Sociology	D NO.	HIST	Upper Division U.S.	,	2nd Come	otor	
	Semester H	Hours	Hist	Electives** (not 320)	6	2nd Seme Foreign La		2
Core Cur	riculum Requirements	n n	HIST	Upper Division East Asia Elective**		CORE	[Eng 102 Comp II]	3
(page 35)		45	Geog 211		3	CORE	[PSc 120 Gov't: U.S., State, Lo	
Sociology	Requirements	36	Geog	Upper Division Elective	3			3
Soc 110	Intro to Sociology	3	PSc 120	Gov't; U.S., State, Local	3	CORE	[Econ 180 Amer Econ System]	3
Soc 155	Physical Anthropology &		PSc	Upper Division Elective*		CORE	[Bio 101 General Biology]	4
	Archaeology	3		opper Bivision Licetive	3		1	16
Soc 311	Social Stratification**	3	Econ 180	Amer Econ System	3	Sophomor	e Year	
Soc 362	Deviant Behavior**	3		Certification Requirements		1st Semes		
Soc 431	Social Research		(page 118)		40-41	Soc 210	Social Problems**	3
C 400	Methods**	3	Section 1		30-131	Foreign La		3
Soc 482	Sociological Theory**	3	*Required	courses in history, politic	al sci-	CORE	[Humanities and Fine Arts] [Math 110 Intro to Col Math]	3
Soc	Electives (Emphasis in	10	ence, soci	ology and economics satisf	fy ma-	CORE	[Comm 100 Oral Comm]	3
Cupportin		18		ements and 18 hours of Core	e Cur-			15
	g Requirements 5 Intro to Microcomputer	12	riculum.			2 16		
Comp 10.	Use	2	**See Prei	requisites		2nd Seme		2
Soc 300	Computer Applications for	3				Soc Foreign La	Elective	3
300 300	the Soc Sci	3	Minor	in Sociology		CORE	[Phys 100 Fund of Phys Sci]	5
Psy 320	App Stat for Behavioral &			Semester I	Hours	CORE	[Hist 120 U.S. History 1877-	
,	Natural Sciences**		Soc 110	Intro to Sociology	3		Present]	
OR			Soc	Electives*	6	OR	III. 4 200 II.G. III.	
Math 310	Elementary Statistics**	3	Soc	Electives - Upper Division	n*	CORE	[Hist 320 U.S. History 1877-	2
Geog	Elective	3			12		Present]	3 14
Electives		35			21			14
	12	28***		th prior approval of a soci		Junior Year		
	Sociology course 110 and			ee prerequisites where ap	plica-	1st Semest	er	
342 satisfi	es six hours of Core Curricu	ulum	ble.			Course Soc 311	Social Stratification**	2
requireme			Minor	in Socialom with		Soc 342*	Social Stratification** Comparative Cultures**	3
**See Pre	requisites		F	in Sociology with		CORE	[English Lit]	3
	nclude at least 40 upper div	ision	Empna	sis in Social Work		Psy 320	App Stat**	3
(300 - 400	level) hours.			Semester F	Hours		(Psy 311 or Math 310)	
			Soc 110	Intro to Sociology	3	CORE	[HPER 101 Physical Activity]	1
Bachel	or of Science in		Soc 221	Marriage and Family	3	CORE	[HPER 103 Lifetime Wellness]	2
	ion with a Major in	10	Soc 210	Social Problems*	3			15
Social	Studies		Soc 306	Sociology of Aging*	3	2nd Semes		
Social	Staties		Soc 331	Intro to Social Work I*	3	Supporting	Area [A minor is suggested]	5
		The state of the s						

Social Science

Comp 10	05 [Computing I] 3Electives	8 16
Senior Yo		
1st Seme Soc 431	Sociological Research Metho	ds**
Soc Supporti Soc Elective	[Upper Division Elective] ing Area [A minor is suggested] Electives	3 3 4 3 3 16
2nd Sen Soc 482 Support Electives	Sociolgical Theory** ing Area [A minor is suggested]	3 6 7 16
*Also m	neets a Core Curriculum requiren	nent
[] Depar The stu	rtment Recommendation dent is to select a supporting a ation with a sociology adviser.	area in
Major C	or of Science Code 2220 gy Major	
Freshma		
1st Sem Course	ester	Hours
Soc 110	Intro to Sociology*	3
CORE	[Eng 101 Comp I]	3
CORE	[Hist 110 U.S. History 1492-1	877] 3
CORE	[Econ 180 Amer Econ System	
Elective		3
Psy 120	College Orientation	16
2nd Ser		
Soc 155	5 Physical Anthropology & Archaeology	3
CORE	[Eng 102 Comp II]	3
CORE	[PSc 120 Gov't: U.S., State,	Local]
		3
CORE	[Comm 100 Oral Comm]	3
CORE	[Phys 100 Fund of Phys Sci]	5
		17
Sonhon	nore Year	
1st Sem		
Soc	Elective with approval of adv	viser 3
CORE	[Math 131 Finite Math]	3
CORE	[English Lit]	3
Geog	Elective**	3
CORE	[Bio 101 General Biology]	4
		16
2nd Se	mester	
Soc	Elective	3
CORE	[Humanities and Fine Arts]	3
Elective		3
CORE	[HPER 103 Lifetime Wellness	
Elective	e [A minor is suggested]	6 17
		17

Iunior Year		
1st Semest		
Soc 311	Social Stratification***	3
CORE	[Soc 342 Comparative Cultures]	
	Computing I	3 3 3
CORE	[Humanities and Fine Arts]	3
CORE	[Hist 120 U.S. History 1877-	5
CORE	Present]	
OR	riesent	
CORE	[Hist 320 U.S. History 1877-	
CORL	Present]	3
CORE	[HPER 101 Physical Activity]	1
CORL	[III ER TOT I Try steat / teat	16
2nd Semes	ster	
	Deviant Behavior***	3
Soc	Elective	3 7 3
	A minor is suggested]	7
Psy 320		3
/	TT.	16
Senior Yea	r	
1st Semes		
Soc 431	Soc Research Methods**	3
Soc	Electives	6
Elective [A	minor is suggested]	6
		15
2nd Seme		
Soc 482	Sociological Theory***	3
Soc 300	Computer App in Soc Sci***	3
Electives [A minor is suggested]	9
	transfer of the addition	15
*Also mee	ets a Core Curriculum requirement	nt
**Select f	rom Geography 211, 311 or 322.	

The student is to select a minor in consultation with a sociology adviser.

For additional information contact: Dr. Conrad Gubera Office: Mansion 201

[] Department Recommendation

Social Science

Mansion 115, 625-9564

***Prerequisites

Phone: 625-9653

Faculty Tate - Head, Blevins, Conboy, Gubera, Holman, Krueger, Laas, Markman, Miller, St. Clair, Sale, Simpson, Smith, Teverow, Yates, Youst

Within the social sciences are the disciplines of geography, history, paralegal studies, political science and sociology.

Each discipline focuses on the study of some aspect or aspects of human societies: their history, government, social organization, laws, physical environment and/or cultural heritage. Students who major or minor in the social sciences prepare for a variety of graduate programs or careers, for example, in teaching, government, law, historic preservation, business, health and hu-

man services. Internships are especially helpful in establishing career objectives and obtaining practical knowledge. Social sciences students may apply for internships at the George Washington Carver National Monument, the Dorothea B. Hoover Historical Museum, as a social work minor, a paralegal studies minor, a political science minor or a sociology major. Also, Missouri State Internships are available.

To satisfy the college-wide computer literacy requirements, the social science faculty suggests students complete Comp 105 Introduction to Microcomputer Use. Other computer literacy requirements apply to the bachelor of science with a major in sociology and to the bachelor of science in education with a major in social studies.

Minors are offered in each of the disciplines within the social sciences. Two general social science minors are also available: a social science minor and a social studies for secondary education minor which qualifies students to teach in junior high and middle schools.

Minor in Social Science

	Semester I	Hours
Hist 110	U.S. History	3
Hist 120	U.S. History	
OR	the state of the same of	
Hist 320	U.S. History	3
PSc 120	Gov't: U.S., State, Local	3
Geog	Elective	3
Soc	Elective (100 - 200 level)	3
Select thr	ee (3) social science cours	es
at the 300	- 400 level (other than His	t
320)		9
		2

Nine hours of these requirements apply to the Core Curriculum.

Minor in Social Studies for Secondary Education

This minor meets social studies requirements for certifying secondary education majors to teach grades 7 through 9. Students electing this minor must have a social sciences faculty adviser.

	,	
	Semester	Hours
Hist 110	U.S. History	3
Hist 120	U.S. History	
OR		
Hist 320	U.S. History	3
PSc 120	Gov't: U.S., State, Local	3
Additional	hours from the following:	15
Hist 130 or	Hist 140 Western Civilizat	ion
		3

Theatre

Econ 180	Amer Econ System	3
Geog 211	Regions and Nations	3
Hist	Upper Division U.S.	1
	Elective (not 320)	3
Hist	Upper Division East Asian	
	Elective	3
		-

Programs and Degree Offerings

See Geography (page 61); History, (page 62); Paralegal Studies, (page 70); Political Science, (page 73); and Sociology, (page 74) for specific degree requirements. minors, A.A. paralegal program and suggested orders of study.

Theatre

Taylor Auditorium 243, 625-9393

Faculty Fields - Head, Claussen, D. Hunt, Jaros

Specialized theatre training provides students with a broad academic background that can lead to a number of careers. Graduates of the Missouri Southern theatre department are currently employed in fields such as:

Theatre Performance/Design Television Production/Performance Commercials **Public Relations** Stage Management Graduate Study **Executive Leadership** Recreational Directorship **Technical Theatre** Personnel Management Government Service Fashion Industry

Factors Unique to Theatre Department:

- 1. hands-on experience for students in acting, house and stage management, directing and technical design-execution;
- 2. a children's theatre play program performing for over 12,000 people annually from the four state area;
- 3. play participation open to all Southern students, faculty and staff;
- theatre faculty members who have professional experience in their teaching specialties;
- a modern, well-equipped mainstage theatre as well as flexible space for studio productions;
- 6. two theatre organizations: College Players and Alpha Psi Omega, a national dramatic honorary fraternity.

The theatre department offers a bachelor of arts degree with a major in theatre and a bachelor of science in education degree with a major in theatre/speech (plan B). A minor in theatre is also available.

To satisfy the college-wide computer literacy requirement, theatre majors earning a B.A. should complete Comp 105 or above. Those earning a B.S.E. must take Educ 401.

It is recommended that students pursuing a degree in theatre meet with their faculty adviser at least twice each semester, once in addition to planning their next semester's schedule. More detailed information is available in the theatre office, 243 Taylor Performing Arts Center.

Core Curriculum requirement in Area 2 Humanities and Fine Arts is fulfilled by Th 110 (Theatre Appreciation).

Bachelor of Arts with a Major in Theatre

Semester Hours Core Curriculum Requirements (page 35) 51* Computer Literacy Requirement Comp 105 or above 3 Foreign Language (four courses in one language) 12 **Theatre Requirements** 46 Th 121,122,221,222 Theatre Laboratory (Select two) Th 142 Theatre Technology 3 Th 231 Speech for Stage 3 Th 232 Costume Technology 3 Th 233 Stage Make-up 1 Th 241 Acting I 3 Th 331 History of the Theatre 3 Th 332 History of the Theatre Th 341 Acting II** 3 Th 351 Directing I 3 Th 362 Stage Costume Design 3 Th 320 Lighting Design OR Th 361 History of Costume OR Th 372 Directing II 3 Th 422 Acting III** OR Th 431 Creative Dramatics 3 Th 441 Stage Design 3 Th **Electives Supporting Requirements** Art 110 Art Appreciation 3 Mus 110 Music Appreciation 3 Hist 130 OR 140 Western Civ. **Electives** 16

*In addition to meeting major requirements, Art 110 and Music 110 satisfy the Core Curriculum requirements in Areas 2A and 2C and Hist 130 or 140 satisfies the requirements in Area 5A.

**See Prerequisites

***A total of 40 upper division hours (300-400) are required, 24 specified in theatre and 16 electives in these areas. One upper division course must be selected from Area 4 of the Core Curriculum.

****Three Writing Intensive (WI) courses in addition to English composition must be included. Two of these must be upper division courses and one of the two must be in theatre.

Bachelor of Science in Education with a Major in Theatre/Speech Communications

Plan B	Single Teaching Fiel	d			
	Semester	Hours			
Core Currie	culum Requirements	000			
(page 35) 5	1*	48			
	iteracy Requirements - Ed	luc			
401		2			
Theatre Rec	quirements	17			
Th 121 or 1	22 or 221 or 222 Theatre				
Laboratory		2			
Th 142	Theatre Tech	3			
Th 212	Oral Interpretation	3			
Th 241	Acting I	3			
Th 331	History of Theatre (WI)				
OR					
Th 332	History of Theatre	3			
Th 351	Directing I**	3			
Communica	tion Requirements	12			
Comm 101	Intro to Human Comm	3			
Comm 215	Interpersonal Comm**	3			
Comm 304	Small Group Comm	3			
Comm 315	Argumentation and				
	Debate**	3			
	Speech Communication				
Electives***		11			
	ertification Requirements	****			
(page 118)		38-39			
Electives		3			
		1-132			
*Required course in psychology counts 3					
hours toward Core Curriculum require-					

ments, Area 3C.

**See Prerequisites

128****

***Must be approved in advance by the student's adviser who must be selected from either the area of speech communication or theatre.

Theatre

	ldition to Psy 110 and Edu	ction	Sophomo			Bachelor o Major Coo	f Science in Education le 0844
401.			1st Semes Th 341	Acting II*	3	Speech and	
10,996			Th 221	Theatre Lab	2		
Minor	in Theatre			or above Computer Literacy		Theatre En	iphasis Single Teaching Field
	Semester H	lours	Require		3	Plan B	Single leaching Field
Th 121, 12	2, 221, 222 Theatre Laborat	ory	CORE	[Area 2-A Elective]	3	Freshman	Year
(Select tw		4	CORE	[English Literature Choice]	3	1st Semest	
	eatre Appreciation	3	CORE	[Hist 110 U.S. History 1492-1877		Courses	Orientation to Education 1
Choose a	total of 11 hours from the		CORE	[HPER 101 Physical Activity]	1	Educ 100	Officiation to Education
	list of classes:	11*			18	Psy 100 Th 121	General Psychology Theatre Lab
Th 142	Theatre Technology	3	2nd Sem	ester		CORE	[Eng 101 Comp I]
Th 212	Oral Interpretation	3	Th 422	Acting III*@	3	Psy 120	College Orientation
Th 233	Stage Makeup	1	Th 232	Costume Tech	3	CORE	[Comm 100 Oral Comm]
Th 231	Speech for Stage	3	Th	Elective	3	CORE	[HPER 101 Physical Activity]
Th 251	Audition Techniques for		Art	Elective (support req)	3	Th	Elective - Makeup
111 231	the Actor	1	CORE	[Area 2-C Elective]	3		15
Th 232	Costume Technology	3	CORE	[Psy 100 or Soc 110]	3		
Th 311	Stage Management	2			18	2nd Seme	
Th 241	Acting I	3				Th 142	Theatre Tech
		3	Junior Ye			CORE	[Area 2-A Elective]
Th 298	Explorations in Theatre	3	1st Seme		2	CORE	[Hist 110 U.S. History 1492-1877]
TI 220	(When Offered)		Th 212	Oral Interpretation	3	CORE	[Eng 102 Comp II]
Th 320	Stage Lighting**	3	Th 441	Stage Design*	3 4	CORE	[HPER 103 Lifetime Wellness]
Th 331	Theatre History (WI)	3	Th	Electives	4	CORE	[Math 110 or above]
Th 332	Theatre History	3	CORE	[Bio 101 General Biology]	3		
Th 341	Acting II**	3	Foreign	Language	17	Sophomo	re Vear
Th 351	Directing I	3	2nd Sem	octor	.,	1st Semes	
Th 361	History of Costume	3	Th 362	Stage Costume Design	3	Educ 200	Orientation to Education II
Th 362	Stage Costume Design	3	CORE	[Hist 120 U.S. History 1877-	100		1 Intro to Human Comm
Th 372	Directing II**	3	CORL	Present]	3	CORE	[Hist 120 U.S. History 1877-
Th 422	Acting III**	3	CORE	[Phys 100 Physical Science]	5		Present]
Th 441	Stage Design	3		Language	3	CORE	[Area 2-C Elective]
		18	CORE	[Econ 180 Amer Econ System]	3	CORE	[Econ 180 Amer Econ System]
*All cour	ses must be selected with a	dviser			17	Th 212	Oral Interpretation
	. Six hours must be upper						1 morning to the second
sion.	and the feet with the		Senior Y	ear			
	erequisites		1st Seme		-	2nd Seme	
500 111	erequisites		Th 320	Lighting Design@	3		admission to teacher education
			Th 331	History of Theatre	3		302 The Exceptional Child Computer Software
C	atad Oudans of Stu	de	Th 351	Directing I	3		
Sugge	sted Orders of Stu	uy		Language	3	CORE 2	15 Interpersonal Comm [PSc 120 Gov't; U.S., State, Local]
Bachelor o	of Arts		Elective	[Eng or Th]	15	CORE	[F3C 120 GOV 1, 0.3., State, Local]
Major Co	de 1007					Th	Elective*
Theatre M	lajor		2nd Sen	nester		Th 241	Acting I
Freshman	Vear		Th 332	History of Theatre	3	Psy 301	Adolescent Psychology
1st Semes			Th 372	Directing II*@	3	,	1
Course	ACI	Hours		Language	3		
Th 121	Theatre Lab	2	CORE	[PSc 120 Gov't: U.S., State, Lo	cal]	Junior Ye	ar
Th 231	Speech For Stage	3			3	1st Seme	ster
Th 233	Stage Makeup	1	Elective	[Eng or Th]	3	Psy 310	Educational Psychology
CORE	[Eng 101 Comp I]	3			15	Educ 329	0 0
CORE	[HPER 103 Lifetime Wellness	-		rtment Recommendation			Practices
CORE	[Comm 100 Oral Comm]	3	*See Pro	erequisites	4	Educ 321	
Psy 120	College Orientation	1		be substituted for approved class in	tecn		
		15	or actin	g area.			04 Small Group Comm
			Support	ing Electives:		CORE	[Area 5-A Elective]
2nd Seme			Accoun	ting, Art, Business, Communication	s, En-	Nota: 1)	Pass Media Competencies
Th 142	Theatre Tech	3	glish, N	lusic, Computer Science		14016. 1)	See Educ 420 below**
Th 241 CORE	Acting I [Hist 140 Western Civilizatio		For add	itional information contact:		2)	
CORE	[Eng 102 Comp II]	3	Dr. Jay			2nd Sem	ester

Dr. Jay Fields Office: Taylor Performing Arts Center 243

3

3

Phone: 625-9393

Educ 422 Teaching Reading in the Sec

School

[Eng 102 Comp II]

[Math 110 or above]

CORE

CORE

Courses/Art

Th Electives*
CORE [Phys 100 Physical Science]
CORE [Area 2-B Elective]
Electives

Senior Year 1st Semester

Apply for student teaching. All course work must be completed except for Professional Semester courses.

Th 331 History of Theatre
Th 351 Directing I
Comm 315 Argumentation & Debate
CORE [Bio 101 General Biology]
Th Electives*

2nd Semester
Educ 344 Teaching Speech & Theatre in Sec Schools
Educ 402 Foundations in Educ

Educ 432 Critical Issues
Select One:
Educ 412 Individual Curriculum
Development (2)

Educ 420 Intro to Counseling**
Note: Offered at night only. Must
be taken the semester prior
to student teaching (3)Psy
412 Meas & Eval in Educ &
Psy (2) 2-3

Educ 462 Student Teaching in Sec Schools 8

[] Department Recommendation *See prerequisites

For additional information contact: Dr. Jay E. Fields

Office: Taylor Performing Arts Center 243 Phone: 625-9393

School of Arts and Sciences Course Descriptions

Art (Art)

Art Composition (F and/or S)
50.0799-100
3 hrs. cr.
Introduction to studio projects using fundamental techniques, media and theories.

Art Appreciation (F, S) 50.0703-110 3 hrs. cr. A survey designed to increase appreciation of the visual arts through readings, slide lectures, library research and visits to the Spiva Art Center. Development of the cognitive and critical processes as they relate to the visual arts are emphasized. Specially recommended toward meeting Core Curriculum requirements for nonart majors.

Beginning Ceramics (F and/or S)
50.0202-120
3 hrs. cr.
Methods and techniques of throwing and/or hand building with application of glazing and

4 firing. Six studio hrs. per week. Lab fee re-5 quired.

Beginning Drawing (F and/or S)

2

16

3

3

4

3

16

2

2

50.0705-130 3 hrs. cr. Development of perceptual drawing skills through the study of line, value, perspective, composition and reduction of form using various media.

Introduction to Design (F and/or S)

50.0401-132 3 hrs. cr. Foundation studio projects using art principles and elements of structure. Primarily a two-dimensional design course. Six studio hrs. per week.

Arts & Crafts (F or S)

50.0299-200 3 hrs. cr. Basic crafts survey exploring materials and processes of traditional and contemporary handicrafts.

Beginning Jewelry Design/Metalsmithing (F and/ or S)

50.0206-205 3 hrs. cr. Creative exploration of design fabrications, casting and forging processes. Six studio hrs. per week. Lab fee required. Prerequisite: Art 100 and/or Art 132, or approval of instructor.

Beginning Sculpture (F and/or S)

50.0709-211 3 hrs. cr. Exploration of forming methods involving wood, clay, plaster and mixed media with emphasis on additive and subtractive techniques. Six studio hrs. per week. Lab fee required. Prerequisite: Art 132 and/or Art 230, or approval of instructor.

Art Education (F, S)

50.1302-220 2 hrs. cr. Creative art activities using media and processes with emphasis on methods of instructing art in elementary school. Required for both elementary education majors and secondary art education majors.

Basic Form (F and/or S)

50.0401-230 3 hrs. cr. Studio exploration of the relationships of parts to form. Projects include two and three dimensional problems. Six studio hrs. per week. Lab fee required. Prerequisite: Art 100.

Beginning Painting (F and/or S)

50.0708-232 3 hrs. cr. Procedures, techniques, historical processes and basic fundamentals of painting with oil. Six studio hrs. per week. Lab fee required. Prerequisite: Art 100 and Art 130.

Advanced Drawing (F and/or S)

50.0705-300 3 hrs. cr. Advanced investigation of various drawing elements including compositions, structure and aesthetics. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 100 and Art 130 or approval of instructor.

Art History, Prehistoric Through Gothic (F, Odd) 50.0703-301 3 hrs. cr. Historic survey of the visual arts from prehistoric through the Middle Ages. Primarily in the Near East, north Africa and Europe.

Art History, Renaissance Through Baroque (S, Even)

50.0703-302 3 hrs. cr. Historical survey of the visual arts of Europe from the early renaissance through the Baroque and Rococo. Comparative study of other cultures included.

Art History, 19th Century (F, Odd)

50.0703-303 3 hrs. cr. Historic survey of the visual arts of Western Europe and the United States focusing primarily upon the styles of Neo-Classicism, Romanticism, Realism, Impressionism and Post-Impressionism.

Art History, 20th Century (S, Even)

50.0703-304

3 hrs. cr.
Study of the mainstreams of Western Art in
Europe and the United States, including its
sources and influences. Emphasis placed on the
succession of modernist art movements in France
and Germany from 1900 to 1945 and in the United
States from 1945 to present.

Seminar (F and/or S)

50.0799-305

3 hrs. cr. Student art problems investigated with group participation. Requirements: research papers and oral presentations of investigated problems. Prerequisite: 21 credit hrs. in art. Strongly recommended by the art faculty.

Transparent Watercolor (F or S)

50.0708-310

3 hrs. cr. Techniques and aesthetic processes of water-color painting using landscape, figures and still lifes as subjects. Six studio hrs.per week. Lab fee required. May be repeated for a total of six credit hrs. Prerequisite: Art 130 or permission of instructor.

Beginning Printmaking (S)

50.0799-312 3 hrs. cr. Procedures, techniques and fundamentals of the (1) relief, intalglio process: etching, drypoint, aquatint, softground; and (2) collagraph and silkscreen printmaking. Emphasis on drawing and design. Six studio hrs. per week. Lab fee required.

Advanced Sculpture (F and/or S)

50.0709-321 3 hrs. cr. Extension of Beginning Sculpture with introduction to the lost wax technique of casting bronze sculpture. Each student is permitted to cast one piece per semester. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 211.

Advanced Sculpture (F and/or S)

50.0709-322 3 hrs. cr. Continuation of Art 321. Six studio hrs. per week.

Courses/Biology

Lab fee required. May be repeated for a total of 6 credit hrs.

Graphic Communications I (F)

50.0402-325

3 hrs. cr. Introduction to commercial art with an emphasis on the recognition, duplication, function and aesthetic use of typography/pictorial images as visual language. Includes lettering, layout and type/image relationships. Six studio hrs. per week. Lab fee required. Prerequisite: Art 100, Art 130 and Art 132.

Advanced Jewelry Design/Metalsmithing (F and/or S)

50.0206-330 3 hrs. cr. Exploration of advanced methods and techniques of complex forms for jewelry and metalsmithing design. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 205 or approval of instructor.

Graphic Communications II (S)

50.0402-350

3 hrs. cr. Continued study of Graphic Communications I with an emphasis on the design and preparation of two-dimensional projects for printing and/or video reproduction. Includes an introduction to the development of an individual portfolio. Six studio hrs. per week. Lab fee required. Prerequisite: Art 325.

Advanced Painting (F and/or S)

50.0708-401 3 hrs. cr. Students select an individual problem for self-development using a variety of media. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 130 and Art 232.

Advanced Ceramics (F and/or S)

50.0202-407 3 hrs. cr. Advanced methods, techniques and procedures of pottery making and design in clay. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 120 or approval of instructor.

Special Projects in Art I (F and/or S)

50.0799-420

3 hrs. cr. Advanced studio survey selected by the student in a particular area of art. Students attend a regularly scheduled course of related content but complete an independent special project approved by the instructor. Requirements: (1) an exhibit of the special project two weeks before the end of the semester and (2) a formal paper documenting the special project(s). Prerequisite: Completion of 2 advanced courses in the same area of concentration and approval of instructor and department head. Lab fee may be required. May be repeated for a total of 6 credit hrs.

Life Drawing (F and/or S)

50.0708-421 3 hrs. cr. Drawing and/or painting the human figure with emphasis on anatomy, structure and form. Six

studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisites: Art 130 and Art 232.

Graphic Communications III (F)

50.0402-425 3 hrs. cr. Continued study of Graphic Communications II with an emphasis on the design and preparation of three-dimensional projects for printing and/or video reproduction. Includes an introduction to computer-aided graphic techniques and equipment. Six studio hrs. per week. Lab fee required. Prerequisite: Art 350.

Advanced Printmaking (S)

50.0799-430

3 hrs. cr. Advanced intaglio, relief and stencil processes. Advanced studio methods for color registration and mixed media procedure. Emphasis on design, drawing concept, technical proficiency and presentation. Six studio hrs. per week. Lab fee rquired. May be repeated for a total of 6 credit hrs. Prerequisite: Art 312 or approval of instructor.

Special Projects in Art II (F and/or S)

50.0799-440 3 hrs. cr. Same as Art 420. May be repeated for a total 6 credit hrs.Lab fee may be required.

Graphic Communications IV (S)

50.0403-450

3 hrs. cr. Study and techniques of illustration for printing and/or video reproduction. Includes advanced projects with computer-aided graphic techniques and equipment. Completion of an individual portfolio is required. Six studio hrs. per week. Lab fee required. May be repeated for a total of 6 credit hrs. Prerequisite: Art 425.

Graphic Communications Internship (Demand)

50.0402-475

1-8 hrs. cr. An off-campus work experience in a professional setting for advanced art majors with a graphic communications emphasis. All internships must conform with institutional policy regarding the number of hrs. per credit and with contractual agreements involving the cooperating organization. Prerequisite: 6 hrs. of graphic communications, junior standing or above and approval of departmental committee.

Senior Exhibit (F)

50.0799-490 2 hrs. cr. Prepares senior art majors for their exhibit which is normally scheduled during May in the Spiva Art Center. One hr. lecture, 2 hrs. of studio per week. Prerequisite: Senior standing and permission of the Junior Review Committee.

Biology (Bio)

General Biology (F, S)

26.0101-101 4 hrs. cr. General treatment of unifying principles of living organisms including cell structure and function, metabolism, genetics, evolution and ecology. Emphasis on these biological principles as they relate to humans. Three lectures, one 2-hr. lab

per week. Fulfills Core Curriculum requirement in Area 3, section A for most majors.

Botanical Survey (F, S)

26.0301-112 3 hrs. cr. Morphology, physiology and classification of plants are studied with emphasis on diversity of plants. Two lectures, one 2-hr. lab per week. Prerequisite: Bio 101.

General Zoology (F, S)

26.0701-121 4 hrs. cr. Introduction to the basic principles of human cytology, metabolism and genetics. Emphasis on anatomy and physiology of humans in preparation for Bio 306. Three lectures, one 2-hr. lab per week. Fulfills Core Curriculum requirement for physical education and certain health related technology majors.

Zoological Survey (F, S)

26.0701-122 3 hrs. cr. Morphology, physiology and classification of animals with emphasis on the diversity of animals. Two lectures, one 2-hr. lab per week. Prerequisite: Bio 101 or 121.

General Physiology (F, S) (Writing Intensive)

26.0401-210 4 hrs. cr. Physiological characteristics and function at the cellular and molecular levels of both plant and animal cells. Three lectures, one 2-hr. lab per week. Prerequisites: Bio 112, 122, Chem 102.

Microbiology (Demand)

26.0501-211 5 hrs. cr. Structure and function of microorganisms with emphasis on classification, the role of microorganisms in the environment and the use of microorganisms in research and industry. Three lectures, two 2-hr. labs per week. Credit toward the biology major may include Bio 211 or 231 but not both. Prerequisite: Bio 101 or 121.

Fundamentals of Medical Microbiology (F, S)

26.0501-231 5 hrs. cr. For students interested in medical professions. Topics include general principles of microbiology, immunology and identification of microorganisms. Three lectures, two 2-hr. labs per week. Credit toward the biology major may include either Bio 211 or 231 but not both. Prerequisite: Bio 101 or 121.

Radiation Biology (S)

26.0610-240

3 hrs. cr.
Survey of various types of radiation affecting humans, the uses of radiation and methods for monitoring radiation levels. Emphasis on the physiological damage that occurs to tissues following ionizing radiation. Three lectures per week. Prerequisites: Bio 306 and 5 hrs. of chemistry or acceptance into the School of Radiologic Technology.

Animal Nutrition (Demand)

26.0609-261 3 hrs. cr. Biochemistry and fundamental principles of ani-

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mal nutrition with special emphasis given to livestock feeding and production. Three lectures per week. Prerequisite: Chem 301 or permission of instructor. (Does not count toward any biology major.)

Principles of Plant Propagation (Demand)

26.0101-271 3 hrs. cr. Principles of plant propagation, emphasizing three specific areas: the physiology of plant growth and the anatomy of plants as topics related to propagation; propagation methods; and technical skills such as budding, grafting and making cuttings. Two lectures, one 2-hr. lab per week. (Does not count toward a biology major.)

Research Methods in Biology (Demand)

26.0101-290 2 hrs. cr. Development of investigational and technical skills required in biology and related fields. Students learn to use the library and to prepare proposals and reports. Familiarizes students with field and laboratory techniques, research design and statistical analysis. Lecture and lab equivalent to 2 hrs. of lecture per week. Recommended for students who wish to enroll in Bio 499 Problems in Biology. Prerequisites: Bio 112

Selected Topics in Biology (Demand)

26.0101-298 1-8 hrs. cr. Specific topic or topics not normally included in another course. Prerequisite: Bio 112 and 122 or permission of instructor.

Computer Applications in Biology (Demand)

26.9999-303 Explores ways in which microcomputers are used to better understand and study biological phenomena. Develops computer literacy and technical expertise required in research, graduate school, teaching and in many other occupations. One lecture, 3-hrs. of lab per week. Prerequisites: 15 hours of biology and an introductory course in computing or permission of instructor.

Genetics (F, S)

(Writing Intensive)

26.0703-305 4 hrs. cr. Introduction to principles of heredity, gene structure, expression and regulation. Emphasis on cytological and molecular approaches to nucleic acid replication, transcription, translation and other genetic mechanisms. Lab exercises illustrate genetic principles and techniques used in modern genetic research. Three lectures, one 2-hr. lab per week. Prerequisite: Bio 101.

Human Physiology and Anatomy (F, S)

5 hrs. cr. 26.0601-306 Structure and function of the human body with emphasis on physiological processes and their anatomical basis. Three lectures, two 2-hr. labs per week. Prerequisite: Bio. 121 or permission of instructor.

Pathophysiology (F)

Altered physiological states, the cellular mani-

festations and causes of disease and adaptation to the alterations. Three lectures, one 3-hr. lab per week. Prerequisites: Bio 306 and 211 or 231.

Environmental Biology (F)

26.0603-312 4 hrs. cr. Environmental factors and their interactions with living organisms. Emphasis on human ecology and wise natural resourse utilization. Three lectures, one 2-hr. lab per week. Prerequisite: Phys 100, Bio 101, Math 110 or permission of instructor. (Double listed in Environmental Technology.)

Economic Botany (F)

26.0301-316 Economic uses of plants and present and possible future value of lower plants. Emphasis on economic aspects of higher plants from an agricultural, horticultural and crop selection viewpoint as well as from a view of pharmacological, textile usage, etc. Three lectures a week. Prerequisite: Bio 101.

Cell Biology (S, Odd)

26.0401-318 4 hrs. cr. Detailed cell structure and function with emphasis on both cytological morphology and physiology. Three lectures, one 2-hr. lab per week. Prerequisites: Bio 112, 122, 210, 305 and Chem 301 or permission of instructor.

Taxonomy of Flowering Plants (S)

26.0301-322 4 hrs. cr. Relationships among selected plant groups with emphasis on classification and descriptions of taxa, nomenclature and concepts concerning the evolutionary sequence of various plant characters. Southwestern Missouri flora emphasized. Two lectures, two 2-hr. labs per week. Prerequisites: Bio 112.

Comparative Vertebrate Anatomy (F)

5 hrs. cr. Fundamental course designed to enhance understanding and appreciation of the structure and adaptions of vertebrates. Emphasis on evolution and the relationship between structure and function. Two lectures, two 3-hr. labs per week. Prerequisites: Bio 122.

Introduction to Entomology (F, Even)

3 hrs. cr. Collecting methods, taxonomy, life history, morphology and evolution of insects. Prerequisites: Bio 122. Two lectures, one 3-hr. lab per week.

Microtechnique (Demand)

26.0501-342 2 hrs. cr. Principles of preserving, fixing, staining and mounting biological materials. Prerequisites: Bio 112 and 122. Two 2-hr. labs per week.

Biomes (Demand)

26.0603-352 2 hrs. cr. In-depth study of a selected ecosystem. The interactions between plants and animals with their abiotic environment is studied in the classroom and during an extended field trip usually lasting one week or more. The habitat chosen for study varies from year to year and some trips require physical conditioning or specialized training. Living conditions range from primitive to reasonably comfortable dormitories. Students are required to bear the cost of the trip. Prerequisites: Bio 112, 122 and permission of instructor.

Parasitology (F, Even)

26.0601-361 4 hrs. cr. Systematic investigation of the numerous parasites found in vertebrates. Emphasis on life cycles of parasites which infect humans and domestic animals. Three lectures, one 3-hr. lab per week. Prerequisites: Bio 122.

Virology (F, Odd)

26.0501-362 Structure and life cycles of bacterial, animal and plant viruses. Significance of viruses in disease and the use of viruses in modern biological research. Three lectures per week. Prerequisites: Bio 211 or 231 and 305.

Environmental Health (Demand)

26.0704-370 4 hrs. cr. Contemporary environmental health problems and public protection measures including public disease prevention, vector control, etc. Three lectures, one 2-hr. lab per week. Prerequisites: Bio 211 or 231, junior standing in science or permission of instructor. (Double listed in Environmental Health Technology.)

Plant Physiology (Demand)

26.0307-371 4 hrs. cr. Introduction to plant physiology emphasizing a review of the cell, plant biochemistry, regulation of plant development and factors producing physiological stress in plants. Three lectures, one 2-hr. lab per week. Prerequisite: Bio 210.

Epidemiology (S, Odd)

18.1107-380

2 hrs. cr.

Introduction to the concepts, principles and methods generally useful in the surveillance and investigation of communicable disease. Prerequisites: Bio 290, EHT 312, (Bio 312) and EHT 370, (Bio 370) or permission of instructor. (Double listed in Environmental Health Technology.)

General Ecology (S)

26.0603-402 Study of plant and animal communities and their interaction within the environment. Emphasis on flora and fauna of Southwest Missouri and soils, climate and other major environmental factors responsible for the distribution and association of plants and animals. Three lectures, one 3-hr. lab per week. Prerequisites: Bio 112 and 122 or permission of instructor.

Invertebrate Zoology (F, Odd)

26.0706-422 5 hrs. cr. Classification, morphology, physiology, development and evolution of invertebrate animals. Three lectures, two 2-hr. labs per week. Prerequisite: Bio 122.

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Animal Physiology (S, Odd)

5 hrs. cr. 26.0706-431 Comparative approach to the physiology of animals with emphasis on laboratory studies using local species. Three lectures, two 2-hr. labs per week. Prerequisite: 10 hrs. of biology.

Histology (S, Even)

4 hrs. cr. 26.0606-433 Detailed study of microscopic structure of animal tissues and organs with special emphasis on mammalian tissue. Three lectures, one 3-hr. lab per week. Prerequisite: 10 hrs. of zoology or permission of instructor.

Plant Pathology (Demand)

26.0305-440 4 hrs. cr. Historical significance of plant pathology, the physiological response of plants to abiotic factors, the anatomical and physiological aspects of plant susceptibility to disease and examples of management systems. Includes major diseases caused by bacteria, fungi and viruses. Three lectures, one 2-hr. lab per week. Prerequisites: Bio 112.

Internship in Biology (F, S)

26.9999-450 1-8 hrs. cr. In conference with a departmental board a half semester in advance, the student shall elect to work and observe in any area of applied biology in which on-the-job experience would be beneficial to the student's training. Prerequisites: At least a second semester junior standing in biology with a minimum of 20 biology hrs. and 20 senior hrs.

Immunology (S, Even)

26.0704-456 3 hrs. cr. Cellular and molecular basis of the immune response in vertebrates will be studied, including the role of the immune systems in disease prevention, hypersensitivity, transplantation immunity and regulation of the immune response. Recommended for students who are interested in careers in cellular and molecular biology and medicine. Three lectures per week. Prerequisites: Bio 211 or 231 and 305 or permission of instructor.

Embryology (S, Odd)

26.0604-462 5 hrs. cr. Detailed comparisons of developmental process of members of the classes of vertebrates. Three lectures, two 2-hr. labs per week. Prerequisites: Bio 331 or permission of instructor.

Aquatic Ecology (S, Odd)

26.0101-481 4 hrs. cr. Analysis of components of freshwater systems, both impoundment and stream environments. Three hrs. lecture, one 2-hr. lab per week. Prerequisites: Bio 122.

Seminar (F, S)

26.9999-490 1 hr. cr. Faculty supervised discussion group concerned with reviews and presentation of reports covering current topics in biology. Faculty members, as well as students, will present reviews in their various areas of interest. One meeting per week. Prerequisites: Primarily for biology majors of junior standing or interested students with at least 15 hrs. of biological science.

Seminar in Biology (F, S)

26.9999-498 1-3 hrs. cr. For upper division majors only. Meets regularly a minimum number of hrs. Designed to give specialized instruction in some discipline of biology not covered in other courses. Prerequisite: Junior standing, 20 hrs. in biology and a minimum GPA of 2.5 in biology or permission of instructor.

Problems in Biology (F, S)

1-3 hrs. cr. 26.9999-499 Individual work under the supervision of a staff member, with the credit and hrs. to be arranged. Problems may be undertaken in any field of biology, with adequate preparation and the consent of the supervising instructor, department head and school dean. Prerequisites: Minimum GPA of 3.0 in 20 hrs. of biology.

Chemistry (Chem)

Introductory Chemistry (F, S)

40.0501-100 5 hrs. cr. Basic principles and practical applications of inorganic, organic and biochemistry which satisfies the needs of students in certain healthrelated programs. Four lectures, one 3-hr. lab per week. Prerequisite: Math 30 or satisfactory score on the Mathematics Placement Test.

General Chemistry I (F, S)

40.0501-101 5 hrs. cr. Introduction to theories of chemistry with emphasis on the relationship of structure to properties of matter and the quantitative aspect of these changes. Four lectures, one 3-hr. lab per week. Prerequisite or corequisite: Math 140 or higher level math course.

General Chemistry II (F, S)

5 hrs. cr. 40.0501-102 Continuation of Chem 101. Emphasis on the dynamics and thermodynamics of chemical processes and on the properties and reactions of analogous groups of cations and anions. Four lectures, one lab per week. Prerequisites: Chem 101 with a minimum grade of "C" or permission of instructor and Math 140 or higher level math course.

Analytical Chemistry I (F)

40.0502-201 Standard first course in quantitative chemical analysis. The lecture and lab include the theory and practice of methods of analysis. While the primary emphasis in the first semester is on the interpretation of the experimental results, other aspects of the analytical process are introduced. Three lectures, two 3-hr. labs per week. Prerequisite: Chem 102.

Selected Topics in Chemistry (F, S)

40.0599-298 1-3 hrs. cr. Special topics in chemistry not normally included in other courses. Prerequisite: Chem 201 or permission of instructor.

Intro to Modern Organic Chemistry (S)

40.0504-300 Principles of organic chemistry--nomenclature, structure, properties, stereochemistry, reactions-will be studied by the functional group approach. Designed for students who require a general knowledge of organic chemistry in their chosen career or as background for other courses in technical or professional training programs. Four lectures, one 3-hr. lab per week. Prerequisite: Chem 102.

Organic Chemistry I (F)

40.0504-301 5 hrs. cr. Deals with both Aliphatic and aromatic compounds, their nomenclature, properties, reactions, stereochemistry. The functional group approach is used: hydrocarbons (saturated, unsaturated, aromatic) and their derivatives are studied. Brief introduction to organic spectroscopy included. Four lectures, one 3-hr. lab per week. Prerequisite: Chem 102.

Organic Chemistry II (S)

(Writing Intensive) 40.0504-302 Continuation of Chem 301. Organic-spectrosco-

py discussed in detail. The functional group approach is continued: Aryl halides, phenols, aldehydes and ketones, carboxylic acids, amines and polyfunctional compounds are covered. A mechanistic treatment of substitution, elimination, addition and free radical reactions is employed. Organic spectroscopy emphasized in both lecture and lab. Four lectures, one 3-hr. lab per week. Prerequisite: Chem 301.

5 hrs. cr.

Applications of Computers in Chemistry (S)

40.0599-320 2 hrs. cr. Applications of microprocessors and modern microcomputers in chemistry: management of chemical information; chemical data collection, reduction and quantitation; use of remote information systems (via modem); analytical instrument interfacing; publication. Prerequisite: Chem 301 and Comp 115 or higher lever computer science course.

Biochemistry (F)

26.0201-351 Fundamental concepts of the chemistry of lipids, carbohydrates and proteins with emphasis on the physiological aspects of these compounds. The interrelationship of these compounds in living systems will be presented through bioenergetics and reaction pathways. Three lectures, one 3-hr. lab per week. Prerequisite: Chem 300 or 302.

Physical Chemistry I (F, Odd)

4 hrs. cr. 40.0506-401 Development of laws of thermodynamics to explain the relationships between properties of systems at equilibrium. Ideas of thermodynamics are first applied to equilibria between different phases and then to chemical reactions. Three

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lectures, one 3-hr. lab per week. Prerequisites: Math 250 and Phys 260.

Physical Chemistry II (S. Even)

40.0506-402 4 hrs. cr. Continuation of Chem 401. A microscopic approach to the understanding of chemical and physical properties of chemical systems and a study of the rates at which chemical and physical processes occur. Studies of: quantum theory, molecular electronic structure, molecular spectroscopy, statistical mechanics, kinetic theory of gases and chemical kinetics. Three lectures, one 3-hr. lab per week. Prerequisite: Chem

Analytical Chemistry II (S)

40.0502-421 5 hrs. cr. Continuation of Chemistry 201. A study of the overall analytical process. Lecture and lab deal mainly with electrochemical and spectrophotometric methods of analysis and their application in chemical analysis, but also include other physiochemical and separatory techniques used in modern analytical processes. Three lectures, two 3-hr. labs per week. Prerequisite: Chem

Advanced Inorganic Chemistry (S, Even)

40.0503-422 4 hrs. cr. Contemporary state of the several bond models in chemistry, a review of the energetics of reactions and coordination theory, followed by the chemistry of the families of the elements in the periodic table. Three lectures, one 3-hr. lab per week. Prerequisites: Chem 102 and Math 250.

Organic Qualitative Analysis (S, Odd)

40.0509-472 4 hrs. cr. Systematic identification of organic compounds and mixtures; organic spectroscopy is emphasized. Two lectures, two 3-hr. labs per week. Prerequisite: Chem 302.

Seminar (F, S)

40.0599-498 1-3 hrs. cr. For upper division chemistry majors. Content varies, depending on the student's needs, from library research to special topics in chemistry. Prerequisite: Senior standing or permission of department head.

Independent Study (F, S)

40.0599-499 1-3 hrs. cr. Independent investigation techniques; includes a paper on a selected topic with both a critical survey of the chemical literature and results from advanced lab experimentation. Open to students having (1) minimum of 15 hrs. of chemistry, (2) ability to undertake independent work and (3) permission of instructor. Registration must be approved by adviser, department head and school dean.

Communications (Comm)

3 hrs. cr.

Oral Communication (F, S) 09.0101-100 Principles of oral communication, including speaking and listening competencies and skills. Primary emphasis is on presenting various types of speeches and improving listening ability. Research, organization, reasoning, language and evaluation skill development are included. Three contact hrs. per week. (Required of all degree candidates.)

Introduction to Human Communication (F, S) 09.0101-101

3 hrs. cr. An introductory survey of the field of communication, exploring theoretical and research foundations. Included are discussions of language and verbal interaction and nonverbal communication. Contexts of communication are covered: interpersonal, group and organizational, public, intercultural and mass. Also covered will be career opportunities for the student who chooses a major or minor in communication.

Newswriting (F, S)

3 hrs. cr. Development of techniques in reporting and writing for a newspaper. Work on the College newspaper, The Chart, is required.

Forensics Workshop (F, S)

23.1001-121 (Per Sem.) 1 hr. cr. A practicum in forensics, including research, organization and presentation of the current debate proposition along with development and presentation of individual events. May be repeated for a maximum of 4 hrs. of credit.

Introduction to Broadcasting (S)

09.0701-130 3 hrs. cr. The role of the electronic media in our society and an introduction to the varied aspects and functions of the broadcasting professions. Laboratory experience in radio and television.

Voice and Diction (F, S)

23.1001-131 3 hrs. cr. Techniques for improving the speaking voice. Attention to voice production, phonetics, pronunciation and vocal expressiveness.

Radio Production (F, S)

09.0701-200 Development of announcing skills. Exercises in microphone techniques, introduction to control board, basic production techniques and combo operation of radio station, introduction to programming and formats. Work on air at KXMS. Projects are taped for analysis and critique. Two hrs. lecture, 2 hrs. lab per week. Prerequisites: Comm 131.

Television Production (F, S)

09.0701-201 3 hrs. cr. Intensive practice in preparation and production of television programs. Camera techniques, floor set-ups and direction of crews and talent. Interviewing techniques. Development of varied onthe-air skills. Two hrs. lectures, 2 hrs. lab per-

Business and Professional Speech (F, S)

3 hrs. cr. A performance-oriented course designed to foster ability in and understanding of the role of speech communication in the context of business organizations and the professions. Interviewing, group discussion and individual speaking formats are included.

Listening (S, Even)

09.0101-205 3 hrs. cr. A study of the role listening plays in our daily lives. Emphasis on the listening process, types of listening skills, response strategies and what our listening behaviors communicate to others. Intensive practice for those who recognize the importance of genuine listening and wish to acquire proficient listening abilities.

Interpersonal Communication (F, S)

(Writing Intensive)

09.0101-215 3 hrs. cr. Person-to-person communication with emphasis on dyadic and group communication. Lecture, reading and discussion with class experiments designed to illustrate interpersonal communication problems. Prerequisite: Comm 100.

Practicum in Communications (F, S)

09.0401-220 (Per Sem.) 1 hr. cr. Laboratory experience on the staff of the College newspaper, yearbook, or broadcast media. Students will participate fully in the work of the media, working under the supervision of faculty members. A minimum of 5 hrs. per week is required. One hr. of credit each term for a maximum of three terms. Prerequisite: for The Chart or Crossroads, Comm 111; for KXMS, Comm 200; for TV, Comm 201.

Feature Writing (F)

3 hrs. cr. Investigative reports and special articles for newspapers and magazines. Work on the College newspaper is required. Prerequisite: Comm 111 or consent of instructor.

Copyediting (S)

09.0401-233 3 hrs. cr. Principles of copy reading and editing, design of newspaper. Paste-up techniques. Students work in positions of major responsibilities on the College newspaper, The Chart. Prerequisite: Comm 111.

Selected Topics in Communications (Demand) 09.0101-298 1-8 hrs. cr.

Topics not normally included in another course. Prerequisites are determined by the department and stipulated in syllabus.

Organizational Communication (F)

23.1001-300 The interface between communication theory and organizational structure. Emphasis upon communication problems in organizations, strategies for overcoming such problems and the design of effective communication systems in organizational settings. Prerequisites: Comm 101 and 215.

Broadcast and Cable Management (S, Even)

09.0701-301 3 hrs. cr. Broadcast station administration, market analy-

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sis, policy determination, station organization, sales, programming, network relationships, community involvement and FCC responsibilities. Prerequisite: Comm 200 and 201 or consent of instructor.

Photocommunications (Demand)

09.0401-302

3 hrs. cr. Theory and practice of communication through the medium of photography. Students work on the photography staffs of college publications and deal with the application of photography to the mass media. Prerequisite: Comm 111 and a knowledge of photographic techniques, including developing and printing.

Small Group Communication (F)

(Writing Intensive)
09.0101-304
3 hrs. cr.
Small group context of interpersonal communication emphasizing group behavior and human relations. Specific units include group problem

solving, decision making and leadership style. Prerequisite: Comm 100.

Intercultural Communication (F, S)

(Writing Intensive)

09,0101-305 3 hrs. cr.
Analysis of variables influencing communication among peoples from different cultures. Emphasis on developing interpersonal skills needed in multicultural encounters. Prerequisite: Comm 100. (Meets Core Curriculum requirements in Area 5, International Cultural Studies.)

Persuasion (S)

09.0101-306 3 hrs. cr. A theoretical examination of the principles of influencing individuals and groups, a history of rhetoric and modern application of these principles to various areas of social interaction. Prerequisite: Comm 100.

Professional Interviewing (F)

09.0101-307

3 hrs. cr. Designed to prepare students for professional fields which require information-seeking and -gathering, decision-making, interaction skills and self-expression. The student will participate in a variety of simulated and actual interviewing situations as both an interviewer and interviewee. Prerequisite: Comm 100.

Communication Law (S)

09.0401-310

3 hrs. cr.
Statutes, administrative regulations and court
decisions affecting freedom of information, censorship, libel, privacy, contempt of court, obscenity, legal access, copyright, advertising and
broadcasting. Rights, privileges and obligations
of the press.

Introduction to Public Relations (S, even)

09.0101-311 3 hrs. cr. Nature and scope of public relations and its relationship to interpersonal and interdisciplinary conduct. Basic elements of public relations including planning, special events, speeches, news releases, annual reports, financial report-

ing, visual and electronic media techniques.

Scholastic Publications (Demand)

09.0401-312 3 hrs. cr. Editorial and production practices of school newspapers and yearbooks. The role of the publications adviser; advanced publication work on the College newspaper or yearbook. Prerequisite: 12 hrs. in media courses.

Argumentation and Debate (F, Even)

23.1001-315

3 hrs. cr. The theory of the modern forms of evidence, evaluations, arguments, methods of refutation and ethical relationships of these methods in a free society. (Meets certification requirements for secondary education.) Prerequisite: Comm 100.

Advanced Television Production (S)

09.0701-320

3 hrs. cr. Focuses on the elements of producing and directing television programs. Students spend most of the laboratory time actually producing programs for telecasting on cable, public television or the College's own television station. One hr. lecture, 4 hrs. lab each week. Prerequisite: Comm 201.

Forensics Workshop (F, S)

23.1001-321 (Per Sem.) 1 hr. cr. Advanced practicum in the area of forensics, including research, organization and presentation of the current debate proposition along with development and presentation of individual events. May be repeated for a maximum of 4 hrs. of credit. Prerequisite: Junior or senior standing and Comm 121.

Broadcast News Reporting (F)

(Writing Intensive)
09.0601-325
3 hrs. cr.
Experience in writing and reporting news for broadcast. Interview assignments, wire rewriting, actualities/voice production and newstape editing. Laboratory experience with campus broadcast media. Prerequisite: Comm 111.

Advanced Communications Practicum (F, S)

1 nr. cr. Intensive laboratory experience on the staff of the College newspaper, yearbook or broadcast media. Students will work for a minimum of 10 hrs. per week in positions of major responsibilities. May be repeated for a maximum of 6 hrs. of credit. Prerequisites: Junior or senior standing; media courses to prepare student adequately for work expected; Comm 220.

Internship in Communications (F, S, Summer)

09.0101-345

1-8 hrs. cr.
Off-campus work experience in areas related to professional goals of students. For advanced majors in communications. Students must be approved for the program prior to enrolling. For some specific internships available, application must be made during the first half of one semester for the following semester. These internships are highly competitive and are awarded only to

exceptional students. In all internships students work under joint supervision of a faculty member and a representative of the organization providing the intern experience. A student may repeat the course to a maximum of 8 hrs. of credit. Prerequisites: Communications major with a minimum of 85 semester hrs.; approval of department head prior to enrolling. Some internships may have other specific prerequisites.

Nonverbal Communication (S)

09.0101-401 3 hrs. cr. The thrust of the course will be to study types and effects of various nonverbal communication behaviors and to develop competencies and skills in applying the study to selected perspectives. Original research as well as published research will be emphasized. Prerequisite: Comm 100.

Broadcast Programming (F)

09.0701-402

3 hrs. cr. An analysis of the programming principles and techniques used within the broadcast and cable professions. Practices of networks, affiliated stations, independent stations and superstations are compared and contrasted. Prerequisite: Comm 130.

Political and Social Communication (S, Even)

09.0101-411 3 hrs. cr. Critical analysis of speakers and speeches selected to present the characteristic ideas of leading social and political developments in national and international affairs; includes lecture, reading and discussion. Prerequisite: Comm 100 and junior or senior standing.

Mass Communications Theory (S)

09.0401-420
3 hrs. cr. Explores the various theories which have been applied to understanding the effects of the mass media. Students will learn the various paradigms which have been applied in attempting to predict media performance, reliability and impact. Prerequisite: Comm 100 plus 3 hrs. of communication courses.

Professional Communication Skills (S)

(Writing Intensive)
09.0101-490
3 hrs. cr.
Writing, speech preparation and the public presentation of ideas. Both written and oral presentations are required and considerable emphasis will be placed on the effective use of language. Prerequisites: Comm 100 and Eng 102.

Communication Issues (S)

09.0101-492 3 hrs. cr. Required of all communications majors. Synthesizes information obtained from previous coursework. Students are presented with current issues of concern from communications fields and are asked to present possible scenarios for their resolution. Prerequisite: Senior standing, plus 15 hrs. in communications.

International Communication (S, Even)

09.0101-493 3 hrs. cr. Comparative analysis of media systems through-

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out the world, international broadcasting, freedom of the press, media imperialism and the New World Information Order.

Seminar in Speech Communication (Demand) 09.0101-498 3 hrs. cr. For upper-division students. Topics to be an-

nounced each time the course is offered.

Seminar in Mass Communications (Demand)

09.0401-498
1-3 hrs. cr. For upper-division students. Topics to be announced each time the course is offered. Prerequisite: Senior standing and at least 15 hrs. of communications courses. Juniors may enroll with permission of instructor.

Independent Study in Speech Communication 09.0101-499 1-3 hrs. cr. An independent course structured by the adviser with approval of the department head and school dean. Prerequisite: Advanced standing in the major field with a GPA of 3.0 or approval of department head. Projects must be approved by

adviser, department head and school dean prior to enrollment.

Independent Study in Mass Communications 09.0401-499 1-3 hrs. cr. Individually directed study in selected areas for advanced majors in mass communications. Prerequisite: A GPA of 3.0 in the major field and 15 hrs. of communications. Projects must be approved by the adviser, department head and school dean prior to enrollment.

English (Eng)

Basic Composition 23.0401-080

23.0401-080 3 hrs. cr. Offered through the Learning Center, for students whose placement scores indicate they are not prepared to enter English 101. Students will write at least six major papers with special attention given to mechanics, grammar, syntax, paragraphing and organization. Students must pass English 80 before registering for English 101.

Freshman Composition I

(Writing Intensive)

23.0401-101 3 hrs. cr. Principles of effective writing based upon pository models. Successful completion of the course permits the student to enroll in English 102. Students demonstrating exceptional ability as indicated by placement scores may be permitted to substitute English 111. (Meets Core Curriculum requirements.)

Freshman Composition II

(Writing Intensive)

23.0401-102 3 hrs. cr. Continued development of writing skills. Initiation, development and completion of a research paper. Prerequisite: English 101. (Meets Core Curriculum requirements.)

Advanced Freshman Composition

(Writing Intensive)

23.0401-111 3 hrs. cr. For freshmen demonstrating exceptional profi-

ciency on placement tests. With a grade of "C" or better in English 111, a student also automatically receives three hrs. credit for English 101, thereby satisfying the six-hr. composition requirement. However, students receiving a "D" in English 111 must take English 102.

Introduction to Literature

23.0101-150 3 hrs. cr. An examination of literary themes, techniques and approaches reflected in the genres of fiction, poetry and drama. (Meets Core Curriculum requirements.)

Introduction to Film Studies

23.0101-160 3 hrs. cr. An introduction to the study of film as a literary genre and art form. Two hrs. lecture, 2 hrs. lab.

Creative Writing (S) (Writing Intensive)

23.0501-216 3 hrs. cr. Writing of prose, poetry and drama. A study of the writer's roles and technical approaches to literature in order to develop creative writing skills. Prerequisite: English 101.

Masterpieces of World Literature

23.0301-261 3 hrs. cr. Selected literature through the Renaissance, excluding British and American literature. (Meets Core Curriculum requirements.)

Masterpieces of World Literature

23.030i-262 3 hrs. cr. Selected literature from the Renaissance to the present, excluding British and American literature. (Meets Core Curriculum requirements.)

English Literature

23.0801-271 3 hrs. cr. Survey of English literature from its beginnings through the eighteenth century. (Meets Core Curriculum requirements.)

English Literature

23.0801-272 3 hrs. cr. Survey of English literature from the Romantic Movement to the present. (Meets Core Curriculum requirements.)

American Literature

23.0701-281 3 hrs. cr. A survey of American literature from its beginning to the Civil War. (Meets Core Curriculum requirements.)

American Literature

23.0701-282 3 hrs. cr. A survey of American literature from its beginning to the Civil War to the present. (Meets Core Curriculum requirements.)

Explorations in Literature (Demand)

23.0101-298 3 hrs. cr. Studies in a variety of literary subjects. Topic open.

Modern Grammar (F)

23.0101-301 3 hrs. cr. Survey of the major descriptive approaches to

English grammar, emphasizing generative transformational syntax. Also focuses on dialect, usage and practical classroom applications.

The Short Story

23.0101-305 3 hrs. cr. An in-depth study of the short story with representative writers from throughout the world. (Meets Core Curriculum requirements.)

Professional Writing (F)

(Writing Intensive)

23.0401-310 3 hrs. cr. An advanced course focused on the technical writing demands of professional occupations. Prerequisite: 6 hrs. composition.

Technical Writing

(Writing Intensive) 23.0401-313

23.0401-313 3 hrs. cr. An advanced composition course focused on the practical demands of on-the-job writing. Designed primarily for upper-level students preparing for careers in science, technology or social science.

Exposition (S)

23.0401-315 3 hrs. cr. The techniques of factual writing. Recommended for all students, especially those planning professional careers. Prerequisite: 6 hrs. composition.

Creative Writing: Poetry

(Writing Intensive) 23.0401-316

23.0401-316 3 hrs. cr. An advanced course in the writing of poetry, including analysis and emulation of professional models and workshop editing of original student writings. Prerequisite: English 216.

Creative Writing: Fiction

(Writing Intensive)

23.0401-317 3 hrs. cr. An advanced course in the writing of fiction, including analysis and emulation of professional models and workshop editing of original student writings. Prerequisite: English 216.

Composition for Teachers (F)

(Writing Intensive)

23.0401-319 3 hrs. cr. For prospective teachers of English. A review of grammar, practice in writing and the theory of teaching writing.

Children's Literature (S)

23.0101-325 3 hrs. cr. A reading, lecture and observation course for elementary education students, including evaluation of children's literature, its historical development and its uses in the elementary school. Does not count toward an English major.

Literature for Adolescents

23.0101-330 3 hrs. cr. An extensive reading course for English education students including evaluation of adolescent

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literature, some methodology for classroom use and a major unit on minority literature.

Women's Literature

23.0101-335 3 hrs. cr. A study of the literary tradition of women authors writing in English.

Black American Literature

23.0701-340 3 hrs. cr. Writings by Black Americans from the Colonial Period to the present.

The American Novel

23.0701-345 3 hrs. cr. Representative works of authors such as Hawthorne, Melville, Twain and Faulkner.

Recent American Fiction

23.0701-350 3 hrs. cr. The major movements in American fiction since World War II.

Arthurian Literature

23.0801-355

3 hrs. cr. Emphasizes the origins and development of Arthurian legends in the Middle Ages; studies treatment of Arthurian literature in modern times. Works read in modern times. Works read in modern English translation. (Meets Core Curriculum requirements in Area 5, International Cultural Studies.)

Twentieth Century Drama

23.0101-360 3 hrs. cr. World drama from Shaw to the present. Emphasis on American and British dramatists.

Twentieth Century Poetry

23.0101-370 3 hrs. cr. British and American poetry from Yeats to the present.

The English Novel

23.0801-380 3 hrs. cr. Studies in the English novel from 1700 to the present, featuring representative works from authors such as Austen, Dickens and Joyce.

Continental Novel

23.0301-385

3 hrs. cr. Representative works by European novelists of the nineteenth and twentieth centuries. Emphasis is on the major European novelists such as Tolstoy, Dostoevsky and Kafka. (Meets Core Curriculum requirements in Area 5, International Cultural Studies.)

Comparative Epic

23.0301-390 3 hrs. cr. Intensive study of a range of Western and non-Western epic poetry and prose, with emphasis on literature from non-English speaking cultures. (Meets Core Curriculum requirements in Area 5, International Cultural Studies.)

Comparative Lyric Poetry

23.0301-391 3 hrs. cr. Intensive study of a range of European and non-European lyric poetry in translation. (Meets

Core Curriculum requirements in Area 5, International Cultural Studies.)

History of the English Language (S)

23.0801-400 3 hrs. cr. The ancestors of English and the effect of other languages, peoples and cultures upon the development of English. Phonology, morphology, syntax and usage of the language throughout its history.

Medieval English Literature

23.0801-410 3 hrs. cr. Literature of England in the Anglo-Saxon and Middle English periods. Emphasis on the works of Chaucer.

Renaissance Prose and Poetry

23.0801-415 3 hrs. cr. English poetry and prose from 1500 to 1660. Focus on major figures such as Sidney, Spenser, Donne, Marvell, Milton.

English Drama to 1800

23.0801-420 3 hrs. cr. English drama from its beginnings to 1800 (excluding Shakespeare). Focus on the period of great English drama of the Renaissance and on Restoration comedy. Includes major figures such as Marlowe, Jonson, Webster, Congreve.

Restoration and Eighteenth Century English Literature

23.0801-425 3 hrs. cr. The rise of Neoclassicism, the Enlightenment and the decline of Neoclassicism in literature from 1660-1798, Dryden to Gray.

The Romantic Period

23.0801-430 3 hrs. cr. English literature from 1798 to 1832 treating representative authors from Wordsworth through Keats.

The Victorian Period

23.0801-435 3 hrs. cr. English literature from 1832 to 1901 examining representative authors such as Tennyson, Carlyle, Browning and Dickens.

Shakespeare (F)

23.0801-450 3 hrs. cr. Selected comedies, histories, tragedies, romances and poems.

English Literature: Major Figures

23.0801-455 3 hrs. cr. An intensive study of a major author or authors whose contribution to English literature is of significant worth. May be repeated with variation of author.

American Literature: Major Figures

23.0701-460 3 hrs. cr. An intensive study of a major author or authors whose contribution to American literature is of significant worth. May be repeated with variation of author. Literary Criticism

23.0101-480 3 hrs. cr. Major schools of criticism and the major representatives of each school.

Seminar in Literature

23.0101-498 3 hrs. cr. For advanced English majors or by permission of department head. Topic open.

Independent Study

23.0101-499
3 hrs. cr. Individually directed study in selected areas for advanced English majors. Prerequisite: a GPA of 3.0 in English. Enrollment must be approved by adviser, department head and school dean.

Foreign Languages and Literatures

Arabic (Ara)

Beginning Arabic I (Demand)
16.1101-101 3 hrs. cr.
Fundamental elements of modern standard Arabic. Basic sentence patterns and grammar.

Beginning Arabic II (Demand)

16.1101-102 3 hrs. cr. A continuation of 101. Further introduction to the basic skills of listening to and speaking the Arabic language. Prerequisite: Ara 101.

Intermediate Arabic I (Demand)

16.1101-203 3 hrs. cr. Systematic development of communicative skills in Arabic. Development of vocabulary. Drill in aural/oral skills. Prerequisite: Ara 102.

Intermediate Arabic II (Demand)

16.1101-204 3 hrs. cr. Continuation of 203. Further systematic development of communicative skills in Arabic. Development of vocabulary. Drill in aural/oral skills. Prerequisite: Arabic 203.

Chinese (Chi)

Beginning Chinese I (Mandarin) (Demand) 16.0301-101 3 hrs. cr. Pronunciation, grammar, elementary conversa-

tion, development of basic communicative skills. **Beginning Chinese II (Mandarin) (Demand)**16.0301-102

3 hrs. cr.

A continuation of 101. Pronunciation, grammar, elementary conversation. Prerequisite: Chi 101.

Intermediate Chinese I (Mandarin) (Demand)

16.0301-203 3 hrs. cr. Systematic development of communicative skills in Chinese. Development of vocabulary. Drill in aural/oral skills. Prerequisite: Chi 102.

Intermediate Chinese II (Mandarin) (Demand) 16.0301-204 3 hrs. o

A continuation of Chinese 203. Further systematic development of communicative skills in Chinese. Development of vocabulary. Drill in aural/oral skills. Prerequisite: Chi 203.

Courses/Foreign Languages

French (Fren)

Beginning French I (F, S)

16.0901-101 3 hrs. cr. An introduction to the basic skills of understanding, speaking, reading and writing in French and to the study of the French-speaking cultures.

Beginning French II (F, S)

16.0901-102 3 hrs. cr. A continuation or Fren 101. Emphasis on the basic skills of understanding, speaking, reading and writing in French and to the study of the French speaking cultures. Prerequisite: Proficiency level of NOVICE, or Fren 101.

Intermediate French I (F, S)

16.0901-203 3 hrs. cr. A continuation of Fren 102. Emphasis on the basic skills of understanding, speaking, reading and writing in French and to the study of the French speaking cultures at the intermediate level. Prerequisite: Proficiency level of NOVICE PLUS, or Fren 102.

Intermediate French II (F, S)

16.0901-204 3 hrs. cr. A continuation of Fren 203. Emphasis on the basic skills of understanding, speaking, reading and writing in French and to the study of the French speaking cultures at the intermediate plus level. Prerequisite: Proficiency level of INTERMEDIATE, or Fren 203.

Selected Topics in French (Demand)

16.0901-298 1-8 hrs. cr. Topics not normally included in another course. Prerequisites are determined by the department and stipulated in the syllabus for each specific offering.

Readings & Conversation (F, S)

16.0901-301

3 hrs. cr. Continued development of the four basic language skills in the target language through readings and conversation. The study of more complex patterns in communicative skills is emphasized. Prerequisite: Proficiency level of INTERMEDIATE PLUS, or Fren 204.

Readings in Literature & Culture (F, S)

16.0901-302

Continued development of the four basic language skills in the target language through readings and conversation in culture and literature. The study of more complex patterns in communicative skills is emphasized. Prerequisite: Proficiency level of ADVANCED, or Fren 301.

French Composition (Demand)

16.0901-303 3 hrs. cr. Practice in writing French accompanied by a study of grammar and syntax. Prerequisite: Proficiency level of INTERMEDIATE PLUS, or Fren 204.

Advanced French Composition (Demand)

16.0901-304 3 hrs. cr. Practice in writing French compositions. Thorough study of grammar, syntax and idiomatic expressions. Prerequisite: Proficiency level of ADVANCED, or Fren 303.

Survey of French Literature (Demand)

16.0901-322 3 hrs. cr. French literature of the eighteenth, nineteenth and twentieth centuries. Prerequisite: Proficiency level of ADVANCED.

Seminar in French (Demand)

16.0901-498
1-8 hrs. cr. Advanced topics not normally included in regular offerings. Prerequisites are determined by the department and stipulated in the syllabus for each specific offering.

Independent Study (Demand)

16.0901-499 3 hrs. cr. Individual directed study in French. Prerequisite: Permission of instructor. The proposed study must be approved by instructor, adviser, department head and dean in advance of enrollment.

German (Ger)

Beginning German I (F, S)

16.0501-101 3 hrs. cr. An introduction to the basic skills of understanding, speaking, reading and writing in German and to the study of the German speaking cultures.

Beginning German II (F, S)

16.0501-102 3 hrs. cr. A continuation of Ger 101. Emphasis on the skills of understanding, speaking and writing in German and to the study of the German speaking cultures. Prerequisite: Proficiency level of NOV-ICE, or Ger 101.

Intermediate German I (F, S)

16.0501-203 3 hrs. cr. A continuation of Ger 102. Emphasis on the basic skills of understanding, speaking, reading and writing in German and to the study of the German speaking cultures at the intermediate level. Prerequisite: Proficiency level of NOVICE PLUS, or Ger 102.

Intermediate German II (F, S)

16.0501-204 3 hrs. cr. A continuation of Ger 203. Emphasis on the basic skills of understanding, speaking, reading and writing in German and to the study of the German speaking cultures at the intermediate plus level. Prerequisite: Proficiency level of INTER-MEDIATE, or Ger 203.

Selected Topics in German (Demand)

16.0501-298 1-8 hrs. cr. Topics not normally included in another course. Prerequisites are determined by the department and stipulated in the syllabus for each specific offering.

Readings & Conversation (F, S)

16.0501-301 3 hrs. cr. Continued development of the four basic language skills in the target language through

readings and conversation. The study of more complex patterns in communicative skills is emphasized. Prerequisite: Proficiency level of INTERMEDIATE PLUS, or Ger 204.

Readings in Literature & Culture (F, S)

16.0501-302

3 hrs. cr. Continued development of the four basic language skills in the target language through readings and conversation in culture and literature. The study of more complex patterns in communicative skills is emphasized. Prerequisite: Proficiency level of ADVANCED, or Ger 301.

Seminar in German (Demand)

16.0501-498
1-8 hrs. cr. Advanced topics not normally included in regular offerings. Prerequisites are determined by the department and stipulated in the syllabus for each specific offering.

Independent Study (Demand)

16.0501-499
1-3 hrs. cr. Individually directed study in German. Prerequisite: Permission of instructor. The proposed study must be approved by instructor, adviser, department head and dean in advance of enrollment.

Japanese (Jpn)

Beginning Japanese I (Demand)

16.0302-101 3 hrs. cr. Pronunciation, conversation and grammar. Aural/oral drill.

Beginning Japanese II (Demand)

16.0302-102 3 hrs. cr. Continuation of Japanese 101. Additional work in pronunciation, conversation and grammar. Aural/oral drill. Prerequisite: Jpn 101.

Intermediate Japanese I (Demand)

16.0302-203 3 hrs. cr. Grammar review and continued aural/oral practice. Prerequisite: Jpn 102.

Intermediate Japanese II (Demand)

16.0302.204 3 hrs. cr. Continuation of Japanese 203 with additional grammar review and continued aural/oral practice. Prerequisite: Jpn 203.

Russian (Rus)

Beginning Russian I (F, S)

16.0402-101 3 hrs. cr. Emphasis on the basic communicative skills of listening, speaking, reading and writing the Russian language. Structural grammar and basic vocabulary.

Beginning Russian II (F, S)

16.0402-102 3 hrs. cr. A continuation of 101. Further introduction to the basic skills of listening to, speaking, reading and writing the Russian language. Prerequisite: Rus 101 and proficiency level of NOVICE.

Intermediate Russian I (F, S)

16.0402-203 3 hrs. cr. Systematic development of communicative skills

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in Russian. Development of vocabulary through reading, writing. Drill in aural/oral skills. Prerequisite: Rus 102 and a proficiency level of NOVICE PLUS.

Intermediate Russian II (F, S)

16.0402-204 3 hrs. cr. A continuation of Rus 203. Further systematic development of communicative skills in Russian. Development of vocabulary through reading, writing. Drill in aural/oral skills. Prerequisite: Rus 203 and proficiency level of INTERMEDIATE.

Spanish (Span)

Beginning Spanish I (F, S)

16.0905-101 3 hrs. cr. An introduction to the basic skills of understanding, speaking, reading and writing in Spanish and to the study of the Spanish speaking cultures.

Beginning Spanish II (F, S)

16.0905-102 3 hrs. cr. A continuation of Spanish 101. Emphasis on the basic skills of understanding, speaking, reading and writing in Spanish and on the study of the Spanish speaking cultures. Prerequisite: Proficiency level of NOVICE, or Span 101.

Intermediate Spanish I (F, S)

16.0905-203

A continuation of Span 102. Emphasis on the basic skills of understanding, speaking, reading and writing in Spanish and on the study of the Spanish speaking cultures at the intermediate level. Prerequisite: Proficiency level of NOVICE PLUS, or Span 102.

Intermediate Spanish II (F, S)

16.0905-204

A continuation of Span 203. Emphasis on the basic skills of understanding, speaking, reading and writing in Spanish and on the study of the Spanish speaking cultures at the intermediate plus level. Prerequisite: Proficiency level of INTERMEDIATE, or Span 203.

The Hispanic World Today (S)

3 hrs. cr. 16.0905-205 A study of Mexico (or Spain), its people and culture against a linguistic and historical background. Examines elements which influence patterns of cultural behavior and popular attitudes in geography, history, politics, socioeconomics and demography as well as the peninsular cultural heritage. Students will spend a minimum of 30 hrs. in a formal study of the country chosen for that particular year followed by a session of seven to 10 days abroad. (In alternate years the course will focus upon either Mexico or Spain.) Taught in English. Students must pay for travel expenses, with specific details available prior to enrollment.

Selected Topics in Spanish (Demand)

16.0905-298 3 hrs. cr. Topics not normally included in another course. Prerequisites are determined by the department and stipulated syllabus.

Readings & Conversation (F, S)

16.0905-301

3 hrs. cr. Continued development of the four basic language skills in the target language through readings and conversation. The study of more complex patterns in communicative skills is emphasized. Prerequisite: Proficiency level of INTERMEDIATE PLUS, or Span 204.

Readings in Hispanic Literature and Culture (F, S)

16.0905-302 3 hrs. cr. Continued development of the four basic language skills in the target language through readings and conversation in culture and literature. The study of more complex patterns in communicative skills is emphasized. Prerequisite: Proficiency level of ADVANCED, or Span 301.

Spanish Syntax I (F, Odd)

16.0905-303 2 hrs. cr. Spanish grammar review with emphasis on the Spanish verb system. Prerequisite: Proficiency level of ADVANCED, or Span 301.

Spanish Phonology (F, Even)

16.0905-304 2 hrs. cr. Advanced study of the Spanish sound system: Phonemic composition, historical antecedents, contemporary convention and variation. Study includes: contrasting inventories, syllabication, descriptive analysis, intonation as signal, accentual norms, word groups and consideration of dynamics and dialectology. Prerequisite: Proficiency level of ADVANCED, or Span 301.

Spanish Syntax II & Composition (S, Even)

16.0905-320 2 hrs. cr. Advanced study of the three major components of Spanish grammar, with emphasis on: verbal moods, lexical items, the effects of stress, idiomatic usage, orthography, the principles of translation and composition. Prerequisite: Proficiency level of ADVANCED, or Span 301.

Peninsular Literature from El Cid to Calderon (F, Even)

16.0905-321 3 hrs. cr. Spain's literary history and important representative works and writings from El Cid to Calderon. Taught in Spanish. Prerequisites: Proficiency level of ADVANCED, or Span 301.

Peninsular Literature from the Romantics to the Present (S, Odd)

16.0905-322 3 hrs. cr. Spanish literature since 1830 with emphasis on Romanticism, Realism, the generation of 1898, contemporary poetry and novel. Taught in Spanish. Prerequisites: Proficiency level of AD-VANCED, or Span 301.

Survey of Spanish-American Literature I (F, Odd) 16,0905-333 3 hrs. cr.

Survey of Spanish American literature from its beginnings to Marti. Taught in Spanish. Prerequisites: Proficiency level of ADVANCED and Span 302 or 320.

Survey of Spanish-American Literature II (S, Even) 16.0905-334 3 hrs. cr.

Survey of Spanish American literature from Marti to present. Taught in Spanish. Prerequisites: Proficiency level of ADVANCED and Span 302 or 320.

The Novelistic Tradition: From Cervantes to the Anti-Realism Tendencies in Modern Fiction (Demand)

16.0905-440 3 hrs. cr. Structure, narrative technique and aesthetic concepts underlying prose fiction as seen through Cervantes, Rabelais, Flaubert, Balzac, Dickens, Kafka, Garcia-Marquez and Borges. Conducted in English. Open to non-majors. Can be counted toward a major in English but not as a part of the Core Curriculum requirements. Prerequisites: Eng 101 and 102 or 103.

Seminar in Spanish Language/Literature (Demand)

For upper-division students. Topics to be announced each time the course is offered. Prerequisite: Proficiency level of ADVANCED and at least 15 hrs. of upper-division Spanish courses.

Independent Study (F, S)

16.0905-499
1-3 hrs. cr. Individually directed study in selected areas for advanced majors in Spanish. Prerequisite: GPA of 3.0 in the major field and 15 hrs. in Spanish. The proposed study must be approved by instructor, adviser, department head and school dean prior to enrollment.

Other Languages

Special Topics in Foreign Languages (Demand)

16.9999-298

1-5 hrs. cr. Languages not currently a part of the curriculum may be offered on appropriate demand, subject to the availability of faculty. For each offering, a course in a specific target language will be structured with the objective of developing the speaking, understanding, reading and writing skills of the student in the target language. Each offering will have a syllabus stating specific requirements of the course as well a prerequisites.

Advanced Topics in Foreign Languages (Demand) 16,999-498 1-5 hrs. cr.

Advanced studies in foreign languages and literatures not currently part of the curriculum may be offered on appropriate demand, subject to the availability of faculty. For each offering, a course in a specific language will be structured with the objective of developing further the speaking, understanding, reading and writing skills of the student in the target language, as well as developing a further awareness of the literature of the specific language. Each offering will have a syllabus stipulating specific requirements of the course as well as prerequisites.

Geography (Geog)

Regions and Nations (F, S)

45.0701-211 3 hrs. cr. Survey of the peoples of the earth and how their

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activities are influenced by climate, topography and natural resources.

Topics in Geography (Demand)

45.0701-298

3 hrs. cr.
Special geography topics of current interest.
Subjects and instructors are changed each semester. Students are encouraged to submit areas of interest to the social science department.

Political Geography (Demand)

45.0701-311 3 hrs. cr. Geographic factors which have influenced international relations and the policies of nations as political units. Emphasis on geopolitics, religion, racial and ethnic groupings and other factors which contribute to unity or disunity.

Economic Geography (Demand)

45.0701-322 3 hrs. cr. World commodities and the geographic factors which affect their production and make them significant to the world economy.

Geography and Culture of Latin America (Demand)

45.0701-412
3 hrs. cr.
Cultural and physical regions and natural resources of South America, Latin America, Central America and the Caribbean Islands. Special emphasis on current problems and relations with the United States.

Geography of the United States and Canada (Demand)

45.0701-422 3 hrs. cr. Geographic analysis of the United States and Canada with emphasis on regional variations of social, economic and physical phenomena.

Seminar in Geography (Demand)

45.0701-498 1-2-3 hrs.cr. Study and analysis of selected topics in regional, urban-economic, cultural or physical geography.

Geology (Geol)

Introduction to Geology (F, Even)

40.0601-110 5 hrs. cr. Materials of the earth, structures and geologic features of the surface in relation to the processes and forces producing them. Laboratory study of minerals and rocks and topographic and geologic maps. Additional one-day field trips may be required. Three lectures, two 2-hr. lab per week. Prerequisite: Phys 100.

Environmental Geology (F, Odd)

4 hrs. cr. An introduction to man's relationship to the earth's environment. The limitations of natural resources and future projections are considered along with man's demands upon the environment. Oil spills, surface mining, waste disposal, ground water and other problems of a geologic nature are reviewed. Natural environmental hazards, such as volcanoes, earthquakes, subsi-

dence, mass movements and floods are examined. Prerequisite: Phys 100.

Studies in Geology (Demand)

40.0601-498

1-3 hrs. cr. Seminar for upper division students only. Meets regularly a minimum number of hours each week equal to the number of credit hrs. Specialized instruction in some discipline of geology not normally covered in other courses. Prerequisite: Junior standing, Geol 110 and a minimum GPA of 2.5 in 16 hrs. of science. Permission of instructor required.

Problems in Geology (Demand)

40.0601-499

1-3 hrs. cr. Individual work under the supervision of a staff member with credit and hours to be arranged. Problems may be undertaken in any field of geology with adequate preparation and the consent of the supervising instructor. Prerequisite: Minimum GPA of 3.0 in 20 hrs. of science, Geol 110 and a proven interest in geology.

History (Hist)

U.S. History Courses

United States History 1492-1877 (F, S)

45.0801-110 3 hrs. cr. Survey of the United States from the era of discovery through reconstruction. Meets the Core Curriculum requirement for all majors. Educ 010 or a satisfactory score on the ACT Admissions Test is a prerequisite or corequisite to this course.

United States History 1877 to Present (F, S)

45.0801-120
Survey of the economic, social and political development of the United States from 1877 to the present. Meets the Core Curriculum requirement for all majors. A student cannot have credit for both Hist 120 and Hist 320. Educ 010 or a satisfactory score on the ACT Admissions Test is a prerequisite or corequisite to this course.

Topics in History (Demand)

45.0801-298 3 hrs. cr. Special historical topics are examined. Students are encouraged to submit areas of personal interest to guide in the selection of the topics.

Introduction to Public History (F)

45.0801-305

3 hrs. cr. Public history serves the public through training and education of social science students in policy analysis, information gathering and dissemination, preservation, organizational management and cultural resources management. This introduction to the applied historical profession features a direct participant approach.

United States Social and Intellectual History (Demand)

45.0801-310 3 hrs. cr. Ideas, values and institutions that have nurtured and influenced the United States during the great industrial expansion, and emergence as a

technology leader to the dilemmas of the 1970's and 1980's. Prerequisite: Three hrs. of history or consent of instructor.

Economic History of the United States (F, Even)

Development of the American economy and its related institutions from the early national period to the present.

United States History 1877 to Present (Demand)

45.0801-320 3 hrs. cr. Survey of the United States from Reconstruction to the present. Meets the Core Curriculum requirement for all majors. A student cannot have credit for both Hist 120 and Hist 320.

The American Frontier (F, Odd)

45.0801-325 3 hrs. cr. The westward expansion of the United States and its effects upon the social, political and economic institutions until the close of the frontier in 1890.

History of the American Indian (Demand)

45.0801-330 3 hrs. cr. Social, political, diplomatic, military and legal history of the native American society.

Diplomatic History of the United States to 1900 (F. Even)

45.0801-335 3 hrs. cr. Diplomatic relations of the United States and the related development of its foreign policy from 1775 to 1900.

Twentieth Century Diplomacy (S, Odd)

45.0801-340 3 hrs. cr. An investigation of United States' diplomacy in the present-day world. Emphasizes the role of the United States in world affairs.

American Diplomacy, 1945 to Present (F)

45.0801-343 3 hrs. cr. An investigation of United States diplomacy and the present-day world. Emphasizes the role of the United States in world affairs.

Age of Jefferson and Jackson (Demand)

45.0801-345
3 hrs. cr. Early political development in the United States. Evolution of the presidency over the first years of the new government, the triumph of Jeffersonian ideas, social trends and the rise of nationalism.

Civil War and Reconstruction (S)

45.0801-350 3 hrs. cr. Causes of the Civil War, slavery and reform movements before the Civil War. Traces the development of reconstruction and political developments of the era.

The South (F, Even)

45.0801-355 3 hrs. cr. Social, economic, political and intellectual history of the Southern United States concentrating on tracing the distinctive characteristics of the section and attempting to discover how a consciousness of the region's separateness evolved.

Courses/History

History of Missouri (F, Odd)

45.0801-360 3 hrs. cr. Missouri's growth from its early settlement to the present. Emphasis on political, economic, institutional and social development.

United States Colonial History (Demand)

(Writing Intensive)

45.0801-365 3 hrs. cr. Colonial development from 1492 to 1781. Early colonization and British imperial policy are emphasized along with social, cultural, political and economic growth. Includes the Revolutionary War period.

Women in U.S. History (S)

45.0801-371 3 hrs. cr. A survey of the historical experience of American women from the colonial period to the modern era.

United States Military Experience 1775 to Present (S)

45.0801-400 3 hrs. cr. Major wars and other activities of the armed forces with emphasis on general military policy, strategy, tactics, organization and technology.

The United States 1870-1920 (Demand)

45.0801-405 3 hrs. cr. United States at the turn of the century with the impact of the Industrial Revolution and its effect on social, political and economic institutions, the Progressive Movement and World War I.

The United States Since 1920 (S, Even)

45.0801-410 3 hrs. cr. Impact of politics, diplomacy and economic trends of the United States since 1920.

Seminar in Historical Research (F, S)

(Writing Intensive)

45.0801-497
3 hrs. cr. Topics pertaining to an era or historical problem of special interest to the instructor and students. Emphasis on student's ability to research, assimilate and present new areas of knowledge. Prerequisite: Junior standing, Eng 102 and 6 hrs. upper-division history.

Seminar in History (F or S)

45.0801-498 3 hrs. cr. Advanced topics not covered in other history offerings. Emphasis on student's ability to research, assimilate and present new areas of knowledge. Prerequisite: Junior or senior status; prior instructor consultation is advised.

Independent Study (F, S)

45.0801-499 1-2-3 hrs. cr. Individualized project directed by the instructor/adviser with approval of department head and school dean. Advanced standing in the major field and a minimum GPA of 3.0 are required.

European History Courses

Western Civilization to 1660 (F, S)

45.0801-130 3 hrs. cr. Development and progress of western civiliza-

tion from its origins through the Reformation. Changes in political organization, religion, artistic expression and daily life in the ancient Near East, Greece, Rome and Christian Europe. May be used to meet the Core Curriculum requirement in Area 5.

Western Civilization Since 1660 (F, S)

45.0801-140 3 hrs. cr. Western societies from the Baroque Era to the retreat of European colonialism. Major emphasis on development of the nation-state, the impact of industrialization, changes in political and two world wars. May be used to meet the Core Curriculum requirement in Area 5.

Topics in History (Demand)

45.0801-298 3 hrs. cr. Special historical topics. Students are encouraged to submit areas of personal interest to guide in the selection of the topics.

Nineteenth Century Europe (Demand)

45.0801-369 3 hrs. cr. Major alterations of European society during this century. Emphasis on industrialization, imperialism, revolutions, rise of socialism/communism, middle-class liberal capitalism and individual national events.

Twentieth Century Europe (Demand)

45.0801-370 3 hrs. cr. A survey approach with emphasis on World Wars I and II, the League of Nations, the United Nations, totalitarian systems and current European/world problems.

English History to 1660 (F, Even)

(Writing Intensive)

45.0801-375

3 hrs. cr. Rise and development of the English people from the Celts through the English Civil Wars. Major topics examined include the Anglo-Saxon and Norman contributions to English civilization, the changing roles of monarch and daily life of various social classes.

English History Since 1660 (S, Odd)

45.0801-380 3 hrs. cr. English people and institutions from the restoration of Charles II to the present. Concentration on the emergence of modern Parliamentary democracy, the industrial revolution, the Empire and current position of England in world affairs.

History of Russia to 1796 (F, Odd)

45.0801-387 3 hrs. cr. History of Russia from pre-Tsarist times through the reign of Peter the Great. Emphasis on the land and the people, national characteristics and political institutions.

History of Russia Since 1796 (S, Even)

45.0801-388 3 hrs. cr. History of Russia since 1796 and the Soviet Union since the Bolshevik Revolution. Investigates the problems posed by Tsarist autocracy and serfdom, the origins and course of the Bolshevik Revolution and Russian life under Communism.

History of Germany (Demand)

45.0801-390 3 hrs. cr. Social, political, military and economic history of Germany, with major concentration on the post 1519 period. Emphasis on the decline of the Medieval Empire, princely absolutism, national unification, Weimar Republic, Third Reich and post World War II.

Medieval History (F, Odd)

45.0801-420 3 hrs. cr. Europe from the end of the Roman Empire to c. 1500. Emphasis on the emergence of the Papacy, manorialism and feudalism, on the development of cities and an urban economy and on intellectual life and artistic expression.

The Renaissance and the Reformation 1350-1650 (S. Even)

45.0801-425 3 hrs. cr. An overview of Europe from 1350 to 1650. Changes in thought and artistic expression, the divisions within Western Christendom, the emergence of national monarchies and the impact of economic change on daily life.

The Era of the French Revolution and Napoleon (F. Even)

45.0801-435 3 hrs. cr. An examination and analysis of events in France and their impact on Europe from 1789 to 1815. Interplay of ideas and people and the quest for a political settlement under a constitutional monarchy, republic and empire.

European Intellectual History (S, Even)

45.0801-440 3 hrs. cr. Intellectual, cultural and social developments in Europe from the Italian Renaissance to the present. Examination of the rise of scientific thought, the Enlightenment, Romanticism, nationalism, political ideologies, social reforms and existentialism.

Seminar in Historical Research (F, S)

(Writing Intensive) 45.0801-497

45.0801-497 3 hrs. cr. Topics pertaining to an era or historical problem of special interest the instructor and student. Emphasis on student's ability to research, assimilate and present new areas of knowledge. Prerequisites: Junior standing, Eng 102 and 6 hrs. upper-division history.

Seminar in History (F or S)

45.0801-498 3 hrs. cr. Advanced topics not covered in other history offerings. Emphasis on student's ability to research, assimilate and present new areas of knowledge. Prerequisite: Junior or senior status; prior instructor consultation is advised.

Independent Study (F, S)

45.0801-499 1-2-3 hrs. cr. Individualized project directed by the instructor/adviser with approval of the department head and the school dean prior to enrollment. Ad-

Courses/Math

vanced standing in the major field and a minimum GPA of 3.0 are required.

East Asian History Courses

Topics in History (Demand)

45.0801-298 3 hrs. cr. Special historical topics. Students are encouraged to submit areas of personal interest to guide in the selection of the topics.

History of China (F, Even)

45.0801-415 3 hrs. cr. Survey of modern China. Emphasis on Chinese society, political developments and relations with the West in the nineteenth and twentieth centuries.

History of Japan (Demand)

45.0801-430 3 hrs. cr. Japan's history from the middle of the nineteenth century to the present. Attention is given to Japan's contact with the West.

Seminar in Historical Research (F, S)

(Writing Intensive)

45.0801-497
3 hrs. cr. Topics pertaining to an era or historical problem of special interest to the instructor and students. Emphasis on student's ability to research, assimilate and present new areas of knowledge. Prerequisites: Junior standing, Eng 102 and 6 hrs. upper-division history.

Seminar in History (F or S)

45.0801-498

3 hrs. cr.
Advanced topics not covered in other history offerings. Emphasis is placed on the student's ability to research, assimilate and present new areas of knowledge. Prerequisite: Junior or senior status; prior instructor consultation is advised.

Independent Study (F, S)

45.0801-499 1-2-3 hrs. cr. Individualized project directed by the instructor/adviser with prior to enrollment in the study. Advanced standing in the major field and a minimum GPA of 3.0 are required.

Global History Courses

Problems in Recent Diplomatic History (F)

45.0801-341 2 hrs. cr. Selected issues in recent global history from the perspective of a United Nations member state. Each student will investigate one issue, share the results of the research with the class and in a paper explain the historical background of the selected nation's position on the issue. Both the nation and topics studied will be determined by MSSC's participation in the Midwest Model United Nations and similar conferences. Although the course is a prerequisite for delegates to these conferences, enrollment is not limited to Model UN participants.

Seminar in Historical Research (F, S)

(Writing Intensive)

45.0801-497 3 hrs. cr. Topics pertaining to an era or historical problem of special interest to the instructor and students. Emphasis on student's ability to research, assimilate and present new areas of knowledge. Prerequisites: Junior standing, Eng 102 and 6 hrs. upper-division history.

Mathematics (Math)

Beginning Algebra (F, S)

27.0101-020 3 hrs. cr. Operations on signed numbers, linear equations and inequalities, systems of linear equations, polynomial arithmetic. No credit towards baccalaureate degree.

Intermediate Algebra (F, S)

27.0101-030 3 hrs. cr. Factoring, operations on polynomials, radicals, quadratic equations. Prerequisite: One year of high school algebra and satisfactory score on the Mathematics Placement Test or Math 020 with a grade of "C". No credit towards baccalaureate degree.

Introduction to College Mathematics (F, S) 27.0101-110 3 hrs

Basic college mathematics with an introduction to various areas of mathematics such as linear programming, set theory, probability and statistics and geometry. Satisfies the requirement in mathematics for the Core Curriculum. Prerequisite: One year of high school algebra and satisfactory score on the Mathematics Placement Test or Math 020 with a grade of "C".

Math for Elementary Teachers I (F, S)

27.0101-111 3 hrs. cr. The real number system and its subsystems, relations and functions, numeration systems. Prerequisite: One year of high school algebra and satisfactory score on the Mathematics Placement Test or Math 020 with a grade of "C". (Will not meet the Core Curriculum mathematics requirement for non-elementary education majors.)

Trigonometry (Demand)

27.0101-112 3 hrs. cr. Trigonometric and logarithmic functions, complex numbers, with applications. Prerequisite: One and one half units of high school algebra, one unit high school geometry and satisfactory score on the Mathematics Placement Test or Math 030 with grade of "C," or permission of instructor.

Math for Elementary Teachers II (F, S)

27.0101-120 3 hrs. cr. A continuation of Math 111. Sets of points, metric and non-metric geometry, probability. Recommended for prospective elementary teachers. Prerequisite: Math 111 or permission of instructor.

College Algebra (F, S)

27.0101-130 3 hrs. cr. Linear equations, radicals, exponents, quadratic equations, inequalities, theory of equations and the binomial theorem. Prerequisite: One and one half units of high school algebra, one unit of high school geometry and satisfactory score on the Mathematics Placement Test or Math 030 with grade of "C".

Finite Mathematics (F, S)

27.0101-131 3 hrs. cr. Finite mathematics with algebra that is designed for business, social science and computer science students. Set theory, functions, matrices, linear programming, probability and statistics, with applications. Prerequisite: One and one half units of high school algebra and satisfactory score on the Mathematics Placement Test or Math 030 with a grade of "C".

Algebra and Trigonometry (F, S)

27.0101-140 5 hrs. cr. Equivalent of Math 112 and Math 130. Prerequisite: One and one half units of high school algebra, one unit of high school geometry and satisfactory score on the Mathematics Placement Test or permission of instructor. Only two hours credit for students with Math 112 or Math 130 credit.

Calculus with Analytic Geometry I (F, S)

27.0101-150 5 hrs. cr. Differentiation and integration of algebraic functions and plane analytic geometry using vectors. Prerequisite: Math 140 with a grade of "C" or four units of high school mathematics and a satisfactory score on the Mathematics Placement Test.

Calculus with Analytic Geometry II (F, S)

27.0101-250 5 hrs. cr. Differentiation and integration of transcendental functions and trigonometric functions, polar coordinates, theory of limits and continuity, parametric equations. Applications to physical problems. Prerequisite: Math 150 with a grade of "C".

Calculus with Analytic Geometry III (F, S)

27.0101-260 5 hrs. cr. Solid analytic geometry, indeterminant forms, infinite series, partial differentiation and multiple integrals. Prerequisite: Math 250 with a grade of "C"

Fundamentals of Mathematical Thought (S)

27.0101-300

3 hrs. cr. Introduction to modern algebra, analysis and proofs; sets, relations, functions, logical development of number systems, cardinality, divisibility, introduction to theory of groups, rings, integral domains and fields. Prerequisite or corequisite: Math 260.

Calculus for the Management and Social Sciences (Demand)

27.0101-302 3 hrs. cr. Calculus applications of differentiation and integration in business and social sciences. Prerequisite: Math 130 or Math 131 or two years high school algebra and satisfactory score on the Mathematics Placement Test. Will not count toward a major in mathematics.

Elementary Statistics (Demand)

27.0501-310 3 hrs. cr. Provides a basic statistical background for the

Courses/Music

various majors for advanced study in their specialties. Topics include data reduction, measures of central tendency, linear regression, correlation and hypothesis testing, with applications to social, managerial, biological and physical sciences. Satisfies the Core Curriculum requirements in mathematics. Prerequisite: Two years high school algebra or Math 130. Will not count toward a major in mathematics.

Problems of Teaching Arithmetic in the Elementary Schools

13.1311-312 3 hrs. cr. (See Education 312 for description.) Will not count toward a major in mathematics.

Differential Equations (S)

27.0101-322 3 hrs. cr. Ordinary differential equations of first and second order, linear equations with constant coefficients, Laplace transforms, power series solutions, numerical solutions, with applications. Prerequisite: Math 260.

Geometry (F, Even)

27.0101-332 3 hrs. cr. Geometric theory from a modern axiomatic viewpoint. Includes an introduction to finite, projective, Euclidean and non-Euclidean geometries. Prerequisite: Math 250.

Teaching Mathematics in Secondary Schools (S) 13.1311-339 3 hrs. cr

Introduction to the instructional planning, materials and methods of teaching mathematics in the secondary schools. Includes brief survey of the history of algebra and trigonometry. Part of the Professional Semester. Will not count toward a major in mathematics.

Abstract Algebra (F, Odd)

27.0101-342 3 hrs. cr. Number theory, equivalence and congruence, theory of groups, rings, ideals, integral domains and fields. Prerequisite: Math 300.

Introduction to Numerical Analysis (S, Even)

27.0301-350 3 hrs. cr. Error Analysis, solution of polynomial and transcendental equations, co-location polynomials, matrix methods, numerical differentiation and integration. Prerequisite: Math 250 and Comp 110 or higher.

Linear Algebra (F, Even)

27.0101-351 3 hrs. cr. Algebra of linear equations and matrices, vector spaces, linear mappings and transformations, determinants, bilinear and quadratic forms, linear functionals, vector inner products and cross products. Prerequisite or corequisite: Math 300.

Introduction to Probability (F)

27.0501-361 3 hrs. cr. Theory of probability using concepts and methods of calculus. A study of discrete and continuous distributions. The central limit theorem. Prerequisite: Math 260.

Introduction to Operations Research (F, Odd)

(Writing Intensive)

27.0101-371 3 hrs. cr. Operations research/management science for computer science and mathematics students. Includes linear programming, project scheduling, Markov chains, queuing theory. Prerequisite: Math 260 and computer programming ability.

Introduction to Advanced Calculus (S, Even)

27.0101-421 3 hrs. cr. Methods of real analysis, basic topology of real numbers, sequences and series, the derivative and the Riemann integral. Prerequisite: Math 300.

Numerical Analysis (S, Odd)

27.0301-431 3 hrs. cr. Fundamental numerical analysis theorems. Error Analysis, data approximation techniques, difference calculus, numerical solution of differential equations. Prerequisite: Math 322 and Comp 110 or higher.

Mathematical Models (S, Even)

(Writing Intensive)

27.0301-452 3 hrs. cr. Applying mathematics in formulating and analyzing models for real world problems. Topics include game theory, graph models, deterministic and stochastic models and computer simulation. Prerequisite Math 322 and Comp 110 or higher.

Introduction to Mathematical Statistics (S, Odd) 27.0501-462 3 hrs. cr.

Distributions of discrete and continuous random variables, sampling distributions and estimation of parameters. Investigation of the techniques of hypothesis testing, correlation and regression. Prerequisite: Math 361.

Seminar in Mathematics (Demand)

27.9999-498

1-3 hrs. cr. For upper division math or related majors. Regular meeting times per week are equal to the number of credit hrs. determined by the department for a given semester. Gives both broad and specialized knowledge of the discipline. Prerequisite: Advanced standing in major field and consent of department head.

Independent Study (Demand)

27.9999-499
1-3 hrs. cr. Course structured by the adviser with approval of the department head and school dean. Prerequisite: Advanced standing in the major field with a grade point average of 3.0. Students must make application several weeks in advance. Registration must be approved by the adviser, department head and school dean. See department head for details.

Music (Mus)

Opera or Musical Theatre Performance (S)

50.0903-102,202,302,402 1 hr. cr. Performance of a role along with active participation in the different areas of staging the musical or opera. Credit is applied after departmental evaluation and approval at the end of the semester. (Students may not receive credit from both the theatre department and music department for the same production.)

Sight Singing and Ear Training (S)

50.0903-109 2 hrs. cr. Basic skills and concepts needed for sight reading, sight singing, solfege, rhythmic dictation, melodic dictation and harmonic dictation are introduced, studied and applied in aural and notated musical examples. Prerequisite: Mus 111.

Music Appreciation (F, S)

50.0902-110 3 hrs. cr. Designed to give the non-music major an insight into musical masterpieces from all eras of music literature.

Music Theory (F)

50.0904-111 3 hrs. cr. Basic fundamentals of music with initiation of harmonic analysis and part-writing. Basic course for music majors; others by consent of instructor.

Music Theory (S)

50.0904-112 3 hrs. cr. Sequential course in written harmony, including inversion, seventh chords and non-harmonic tones. Prerequisite: Mus 111.

Concert Chorale (F, S)

50.0903-121, 122, 321, 322 2 hrs. cr. Open to all college students. Preparation and performance of great choral works. Prerequisite: Permission of instructor. Each class may be repeated one time for credit.

Opera and Musical Theatre (F)

50.0903-133 2 hrs. cr. History, production and performance of one act operas, operatic excerpts, musicals and light opera. Academic concentration the first six weeks on opera history and opera production with the last 10 weeks focusing upon the particular musical or light opera selected for production the spring semester of that year.

Musical Theatre and Opera (F)

50.0903-135 2 hrs. cr. History, production and performance of one act operas, operatic excerpts, musicals and light opera. Academic concentration the first six weeks on musicals and their production with the last 10 weeks focusing on the particular one act opera(s) and/or operatic excerpts selected for production the spring semester of that year.

Jazz Band (F, S)

50.0903-141,142,341,342 1 hr. cr. A stage band open to all students who are qualified instrumentalists. The Jazz Band will prepare and present several concerts during the year, while dealing primarily with music of the jazz idiom. Prerequisite: Permission of instruc-

Courses/Music

tor. Each class may be repeated one time for credit. Corequisite: Mus 191, 391, 192 or 392.

Orchestra (F, S)

50.0903-151,152,351,352 2 hrs. cr. Audition is available to all college students who play an orchestral instrument. The orchestra will present public concerts, performing standard and orchestral literature. Prerequisite: Audition. Each class may be repeated one time for credit.

Southern Exposure (F, S)

50.0903-161,162,361,362 1 hr. cr. Small select ensemble. Performs all literature from madrigal to modern music, written for small vocal ensemble. Prerequisite: Audition. Each class may be repeated one time for credit. Corequisite: Mus 121, 122, 321 or 322.

Brass Choir (F, S)

50.0903-171,172,371,372 1 hr. cr. Open to all students with band instrument experience. Performance of literature for brass ensemble. Each class may be repeated one time for credit.

Conducting Techniques (F)

50.0903-182 2 hrs. cr. Baton technique, factors in interpretation, score reading and rehearsal procedures for instrumental and vocal organizations. Included is experience conducting live rehearsals. Prerequisite: Mus 109, Mus 112.

Marching Band (F)

50.0903-191,391 2 hrs. cr. Open to all qualified students with high school band experience. A study and practice of the fundamentals of drill and presentation of musical marching maneuvers. Prerequisite: Permission of instructor. Each class may be repeated one time for credit.

Concert Band (S)

50.0903-192,392 2 hrs. cr.
Open to all qualified students with band instrument experience. Rehearsal and public performances of composite repertoire. Prerequisite: Permission of instructor. Each class may be repeated one time for credit.

Sight Singing and Ear Training (F)

50.0903-210 2 hrs. cr. Sequential course in using the skills and concepts in sight singing and ear training. Sight reading of melodies of increasing difficulty. Ear training emphasis will be in harmonic dictation. Prerequisite: Mus 109.

Music Theory (F)

50.0904-211 3 hrs. cr. Modulation, diatonic, seventh chords, altered chords, advanced part-writing procedures. Prerequisite: Mus 112.

Music Theory (S)

50.0904-212 3 hrs. cr. Secondary dominant chords, augmented triads and sixth chords, advanced modulation, intro-

duction to contemporary techniques. Prerequisite: Mus 211.

Vocal Diction (Demand)

50.0903-215 2 hrs. cr. Applied voice students receive instruction in the correct pronunciation of English, Italian, French, German and Ecclesiastical Latin as used in the study of vocal literature.

String Techniques (F)

50.0903-231 1 hr. cr. Class instruction in the string instruments, including a study of methods and materials to be used in the teaching of beginning students.

Brass Techniques (S)

50.0903-232 1 hr. cr. Class instruction in the brass instruments, including a study of methods and materials to be used in the teaching of beginning students.

Percussion Techniques (F)

(Not open to percussion majors)
50.0903-233
1 hr. cr.
Class instruction in the percussion instruments, including a study of methods and materials to be used in the teaching of beginning students.

Woodwind Techniques (S)

50.0903-234 1 hr. cr. Class instruction in the woodwind instruments, including a study of methods and materials to be used in the teaching of beginning students.

Recital Attendance (F, S)

50.0903-240 0 hrs. cr. Attendance at designated afternoon and evening recitals and concerts is required of all music majors each semester.

Selected Topics in Music (Demand)

50.099-298 1-3 hrs. cr. Study of special topics in music not included in another course. Prerequisite: Permission of instructor.

Choral Techniques (F)

50.0903-309 2 hrs. cr. Designed to formulate principles for directing secondary and adult choral ensembles. Covers motivational techniques, including body language, verbal skills, understanding of the vocal mechanism and the function of rhythm in the musical phrase. Explores various organizational methods, rehearsal procedures and teaching materials. Also includes conducting techniques conducive to encouraging proper vocal technique. Prerequisite: Permission of instructor.

History of Music (F)

50.0902-311 3 hrs. cr. General survey of history of music from Greek period to 18th century. Prerequisite: Mus 212.

History of Music (S)

50.0902-312 3 hrs. cr. From 18th century to the present. Score reading required. Prerequisite: Mus 212.

Music for the Elementary School (F, S)

13.1312.332 2 hrs. cr. Methods of teaching music in the elementary classroom and a study of materials to be used.

Music for the Elementary Grades (Demand)

13.1312.333 2 hrs. cr. Methods of teaching music in the elementary classroom and a study of materials to be used. Restricted to music majors and advanced music students. Prerequisite: Mus 112.

Marching Band Methods (F)

50.0903-411 2 hrs. cr. Procedures needed in organization, promotion, equipping, rehearsing and performance of a marching band including study of musical repetoire and charting of field maneuvers. For music majors; others by consent of instructor. Prerequisite: 2 semesters marching band. Corequisite: Mus 191 or 391.

Form and Analysis (F)

50.0904-420 3 hrs. cr. Harmonic and formal analysis of composition from the Baroque Era through contemporary music. Prerequisite: Mus 212 or permission of instructor.

Orchestration (S)

50.0904-431 3 hrs. cr. Capacities of orchestral instruments. Scoring for various orchestral combinations, including full orchestra. Prerequisite: Mus 212 or permission of instructor.

Music in the Public School (F)

13.1312.432 2 hrs. cr. Acquaints music education majors with problems of administration and supervision of the school music program through high school level. Content includes the place of music in the school program, music equipment, schedules, budget, instructional problems and public relations in music. Prerequisite: Mus 212.

Advanced Conducting Techniques (F)

50.0903-444 2 hrs. cr. Conducting skills, including irregular beat patterns, advance technical problems and methods developed for solving them. Prerequisite: Mus 182.

Senior Recital

50.0903-450 0 hrs. cr. A solo recital is required of all music majors. The recital is to be given within the last year of residency. Corequisite: Mus 407 or 408.

Seminar in Music (Demand)

50.0999-498 1-3 hrs. cr. For upper division music majors or related majors. Topics and methods not included in other courses. Permission of instructor is required.

Independent Study (Demand)

50.0499-499 1-3 hrs. cr. Structured by the adviser with approval of the department head and school dean. Prerequi-

Courses/Paralegal, Philosophy, Physics

site: Advanced standing in the major field with a GPA of 3.0. Registration must be approved by the adviser, department head and school dean.

Major in: Brass, Keyboard, Percussion, String,

Applied Music -- (Private Lessons)

	0,
Woodwind and Voice. All major	applied music
offerings may be repeated one ti	me for credit.
50.0903-207	2 hrs. cr.
50.0903-208	2 hrs. cr.
50.0903-407	2 hrs. cr.
50.0903-408	2 hrs. cr.
Elective in the six areas listed ab	ove under ma-
jor.	
50.0903-103	1 hr. cr.
50.0903-104	1 hr. cr.
50.0903-105	1 hr. cr.
50.0903-106	1 hr. cr.
50.0903-203	1 hr. cr.
50.0903-204	1 hr. cr.
50.0903-305	1 hr. cr.
50.0903-306	1 hr. cr.
50.0903-107	2 hrs. cr.
50.0903-108	2 hrs. cr.
50.0903-307	2 hrs. cr.
50.0903-308	2 hrs. cr.
Elective in Jazz Improvisation	
50.0903-104	1 hr. cr.
50.0903-204	2 hrs. cr.

Paralegal (PLS)

Introduction to Legal Assistance (F)

22.0103-201 3 hrs. cr. American legal system with emphasis on the roles, skills and tasks of the paralegal. Topics include professional ethics, client interviewing and legal analysis.

Topics in Paralegal Studies (Demand)

22.0199-298
3 hrs. cr.
Special topics of current interest to the student.
Subjects are changed each semester. Students are encouraged to submit areas of interest to the social science department.

Business Law I (F, S)

06.0101-301 3 hrs. cr. (See GB 301).

Business Law II (F, S)

06.0101-302 3 hrs. cr. (See GB 302).

Legal Research (F, Odd)

22.0199-302 3 hrs. cr. Research involved in case preparation; use of the law library and the various digests, encyclopedias, reporters, etc., contained therein.

Property (S, Odd)

22.0199-311 3 hrs. cr. Laws relating to real and personal property with emphasis on the procedures and forms used in real estate transactions and conveyances such as deeds, contracts and leases.

Civil Litigation (S, Even)

22.0199-312 3 hrs. cr. Process of civil litigation from filing to appeal

including rules for instituting and conducting lawsuits before federal and state courts, rules of evidence and procedure and the preparation of pertinent legal forms.

Family Law (S, Even)

22.0199-320 3 hrs. cr. Laws regulating marriage, adoption, divorce, division of property, child custody and support, adult abuse and termination of parental rights and the preparation of pertinent legal forms.

Wills, Trusts and Probate (F, Even)

22.0199-401 3 hrs. cr. Law of wills, trusts and intestate succession; includes analysis of the administration, probate of estates and the preparation of pertinent legal forms.

Constitutional Law I (F, Even)

45.1001-431 3 hrs. cr. (See PSc 431).

Constitutional Law II (S, Odd)

45.1001-432 3 hrs. cr. (See PSc 432).

Internship (Demand)

22.0119-491 3 hrs. cr. An applied internship of 135 hrs. done under the supervision of a practicing professional who is directly engaged in a day-to-day application of the law (i.e. judges, attorneys, government officials), as approved by department head and school dean.

Senior Seminar (Demand)

22.0119-498 3 hrs. cr. Comprehensive analysis and review of selected legal topics to be announced when course is offered. Prerequisite: 9 hrs. of paralegal studies or consent of instructor.

Independent Study

22.0119-499
1-2-3 hrs. cr. Study and research by the student under the direction and supervision of instructor/adviser with prior approval by department head and school dean. Prerequisites: Advanced standing in the major field and a minimum GPA of 3.0.

Philosophy (Phil)

Critical Thinking

38.0101-140 3 hrs. cr. Introduction to logic, with special emphasis on common errors and fallacies in reasoning.

Introduction to Philosophy

38.0101-201 3 hrs. cr. Comparative survey of major types of philosophy and of representative problems in philosophy. Satisfies 3 hrs. of Core Curriculum requirements in Area 2C on page 35.

Ethics

38.0101-212 3 hrs. cr. Exploration of the problems of value and personal moral standards, comparative survey of major

ethical systems and evaluation of the chief ethical struggles in contemporary society.

Topics in Philosophy

38.0101-298 3 hrs. cr. Studies in a variety of philosophical subjects. Topic open.

Ancient Philosophy

38.0101-301 3 hrs. cr. Historical study of ancient philosophy, with special emphasis on the writings of Plato and Aristotle. Prerequisites: 3 hrs. of philosophy or permission of instructor.

Modern Philosophy

38.0101-302 3 hrs. cr. A survey of the major schools of western philosophy from 1550 to 1850. Prerequisites: 3 hrs. of philosophy or permission of instructor.

Biomedical Ethics

38.0101-312 3 hrs. cr. A comprehensive investigation of ethical problems relating to health care and the practice of medicine, including study of such issues as euthanasia and the right to die, abortion, confidentiality, patient rights and professional responsibilities, allocation of medical resources and medical experimentation.

Comparative Religion

38.0101-320 3 hrs. cr. A philosophical and historical survey, emphasizing the world's major living religions.

Philosophy of Science

38.0101-420 3 hrs. cr. Investigation of the nature and scope of scientific inquiry. Topics include the logic of scientific reasoning, the nature of scientific theories, the conceptual presuppositions of science and the relation between the natural and social sciences. Prerequisites: 3 hrs. of philosophy or permission of instructor.

Seminar in Philosophy

38.0101-498 3 hrs. cr. Comprehensive analysis of selected topics in philosophy. For upper division students.

Independent Study

38.0101-499
1-3 hrs. cr. Individually directed study in selected areas for advanced students. Prerequisite: GPA of 3.0 in philosophy. Enrollment must be approved by adviser, department head and school dean.

Physics (Phys)

Fundamentals of Physical Science (F, S)

40.0101-100 5 hrs. cr. Basic concepts in the fields of physics, chemistry, geology and astronomy will be presented as time permits. Emphasis on a detailed picture of energy and its uses, including an understanding of both mechanical and thermal efficiencies and the limitations that these efficiencies place on our world. Central to the course will be a working ability in applying some of the basic laws of

Courses/Political Science

nature to specific problems. Lecture and demonstration periods. Prerequisite: Qualified to take Math 110 or higher. (It is best to satisfy the math requirement before taking this course.)

Physical Science for Elementary Teachers

40.0101-101 5 hrs. cr. Basic concepts in the field of physical science. Central to the course will be a working ability in applying some of the basic laws of nature to specific problems. Four lecture and demonstration periods, one 2-hr. lab per week. Prerequisite: Qualified to take Math 110 or higher. (It is best to satisfy the math requirement before taking this course.)

Physics for Teachers 7-9 (Summers)

40.0801-120 4 hrs. cr. Essential subjects of physics at a level accessible with only a college algebra background. Primarily for teachers who need a physics course to satisfy the state requirement in physics for certification in science 7-9. Three hrs. lecture, one 2-hr. lab recitation class per week. Prerequisite: Math 130 or equivalent.

Essential Skills for Physics (F, S)

40.0801-140

3 hrs. cr. Physics preparatory class covering vector techniques, geometrical and trigonometrical applications in physics, analysis of one-dimensional motion and setting up word problems. Recommended for students who have not had a high school physics course or who feel their background in physics is inadequate. Three hrs. lecture per week. Prerequisite: Math 140.

Elementary College Physics I (F, S, SS)

40.0801-151 5 hrs. cr. Mechanics, properties of matter, heat, wave motion, sound and electrical circuits. Four hrs. lecture, one 2-hr. lab per week. Prerequisite: Math 140.

Elementary College Physics II (S)

40.0801-152 3 hrs. cr. Magnetism, optics, relativity, radioactivity, nuclear reactions and further study of mechanics including rotational dynamics. Two hrs. lecture, one 2-hr. lab per week. Prerequisite: Phys 151.

Introduction to Meteorology

40.0401-180 3 hrs. cr. Principles basic to the understanding of weather and climate. Three lectures per week. Prerequisite: Phys 100 or equivalent. (Does not count toward a physics major.)

General Physics I (F, S)

40.0801-250 5 hrs. cr. Introductory study (with emphasis on vector methods) of the mechanics of particles and rigid bodies and a study of heat and temperature. Four hrs. lecture, one 3-hr. lab/recitation class per week. Prerequisite: Math 150 and Phys 140 strongly recommended.

General Physics II (F, S)

40.0801-260 5 hrs. cr. Electricity, magnetism, waves and geometrical

and physical optics. Four hrs. lecture, one 3-hr. lab/recitation class per week. Prerequisite: Phys 250 and Math 250.

Selected Topics in Physical Science (F, S)

40.0101-298
1-3 hrs. cr.
Special topics in physical science not normally offered in other courses. Prerequisite or corequisite: Math 130 or equivalent.

Astronomy (Demand)

40.0201-300 3 hrs. cr. The solar system. Kepler's laws, celestial coordinates and observing. Hertzprung-Russell diagrams, stellar evolution, pulsars, black holes, nebulae, galaxies and cosmology. Three lectures per week. (Does not count toward a physics major.) Prerequisite: Phys 100 or equivalent and one year high school algebra.

Modern Physics (F)

40.0801-301 4 hrs. cr. Wave motion, special theory of relativity, wave-particle experiments, introductory quantum mechanics and nuclear physics. Prerequisite: Phys 260. Corequisite: Math 260.

Statics (S, S)

40.0801-312 3 hrs. cr. Principles of mechanics as applied to problems of engineering in which the structures under consideration are in static equilibrium. Three lectures per week. Prerequisite: Phys 250.

Classical Mechanics (S, Odd)

40.0801-322 3 hrs. cr. Kinematics and dynamics of particles and systems of particles including the harmonic oscillator, potential functions, conservative fields of force, accelerated reference frames, energy, gravitation, rigid bodies and an introduction to the mechanics of continuous media. Three hrs. lecture per week. Prerequisite: Phys 250, Corequisite: Math 322 or permission of instructor.

Thermal Physics (S)

40.0801-341 4 hrs. cr. Temperature, transfer of heat, laws of thermodynamics, entropy, enthalapy, reversibility and irreversibility, thermal properties of materials, change of phase, use of thermo tables and introduction to heat transfer. Four hrs. lecture per week. Prerequisite: Math 260 and Phys 250.

Electronic Circuits (S)

40.0801-372 4 hrs. cr. Ohm's law, Kirchoff's laws, Nodal analysis, mesh analysis, Thevenin's and Norton's theorems, superposition, inductors and capacitors, sourcefree RL and RC circuits, RLC circuits. Complex variables and their application to steady-state ac circuits. Two 3-hr. lectures and lab per week. Presently limited to 15 students by equipment considerations. Prerequisite: Phys 260, Corequisite: Math 260.

Intermediate Physics Laboratory (Demand)

(Writing Intensive)

40.0801-381 3 hrs. cr. Experiments in classical and modern physics,

including wave phenomena, heat transfer, electrical measurements, optics, photoelectric effect and radioactivity. Two 3-hr. lab per week. Prerequisite: Phys 301 or permission of instructor.

Electricity and Magnetism (F, Odd)

40.0801-401 4 hrs. cr. Electrostatic forces, electric fields, electric potential, properties of conductors and dielectrics, magnetic fields, magnetic properties, induced electromotive force, Maxwell's equations and electromagnetic waves. Four hrs. lecture per week. Prerequisites: Math 260 and Phys 260.

Quantum Mechanics (Demand)

40.0801-452 3 hrs. cr. Time independent Schroedinger equation, eigenfunctions, expectation values, differential operators, pertubation theory, multi-electron atoms and applications to solid state physics. Three hrs. lecture per week. Prerequisite: Phys 301 and Math 322.

Selected Topics in Physics and Engineering (Demand)

40.0801-480 3 hrs. cr. One or more of the following topics for further study: solid state physics, optics, nuclear physics, advanced mechanics, circuit analysis, thermodynamics, fluid mechanics heat transfer and mechanics of materials. Open to students having a minimum of 18 hrs. of physics and permission of instructor.

Seminar (F, S)

40.0801-498

1-3 hrs. cr.
Topics of current interest by the student from the areas of physics and engineering. Secondary education majors will be required to present several lecture-demonstration programs illustrating the basic concepts in physics at the secondary level. Open to students having a minimum of 18 hrs. of physics and permission of instructor.

Independent Study (F, S)

40.0801-499
1-3 hrs. cr. Course structured by the adviser with approval of the department head. Prerequisite: Advanced standing with a GPA of 3.0 in the major field. Registration must be approved by the adviser, department head and school dean.

Political Science (PSc)

Government: U.S., State & Local (F, S)

45.1001-120

3 hrs. cr.
Designed to give students an understanding of their governments, enabling them to keep up with political developments with the goal of becoming informed citizens needed to sustain democracy. A Core Curriculum requirement for all bachelor's degrees.

Topics in Political Science (Demand)

45.1001-298 3 hrs. cr. Special political science topics of current interest to the student or faculty member who offers the class. Subjects and instructors change each

Courses/Sociology

semester. Students are encouraged to suggest possible course topics to the political science faculty.

Introduction to Political Science Methods (Demand)

45.1001-300 3 hrs. cr. The nature, possibilities and limitations of political inquiry emphasizing research methods and tools. A valuable course for students who wish to engage in non-library types of research projects.

Political Parties and Elections (F, Even)

45.1001-301 3 hrs. cr. Analysis of the origins, structure and functions of political parties; the dynamics of the two-party system; the role of third parties and the election process.

Public Opinion and Pressure Groups (S, Odd)

45.1001-302 3 hrs. cr. Origins, impact and measurement of public opinion. Scope, nature and powers of interest groups in American society with special attention to their role in formulating public opinion and public policy.

Law, Society and the Judicial Process (Demand)

(Writing Intensive)
45.1001-310
3 hrs. cr.
American legal system with special attention to the organization, methods, processes and behaviors of the judiciary.

The American Presidency (F, Odd)

45.1001-311 3 hrs. cr. Politics of presidential selection, the powers of the President, the organization of the executive branch and its relations with other organs of government.

The Legislative Process (S, Even)

45.1001-312 3 hrs. cr. Problems of representation, organization of the legislature, participation and proposals for improved organization. Emphasis on the United States Congress.

State Government (S, Even)

45.1001-320 3 hrs. cr. General structure, theories, operation and problems of state government with special emphasis on the government of Missouri.

International Relations (F, Even)

45.0901-321 3 hrs. cr. Present-day relations and problems among the states of the world and the major factors which underline and influence these relations.

International Law (S, Odd)

45.0901-322 3 hrs. cr. Rules and principles accepted by the members of the community of nations as defining their rights and duties and the procedures employed in protecting their rights and performing their duties

Comparative Government: Europe (F, Odd)

45.1001-331 3 hrs. cr. An analysis of the governments of selected European countries emphasizing the development of their political systems both in theory and practice. Comparisons with American governmental institutions.

Comparative Government: Latin America (S, Even) 45.1001-332 3 hrs. cr.

Governments and cultures of selected Latin American countries emphasizing the development of their political systems in both theory and practice.

Municipal Government (F, Odd)

45.1001-341 3 hrs. cr. Structure, legal status, functions and organization of city, town and village government in the United States.

Political Theory (F, Odd)

45.1001-411 3 hrs. cr. Selected Western political philosophies from early recorded history through the present time.

Contemporary Political Thought (S, Even)

45.1001-412 3 hrs. cr. Twentieth century political ideas.

Public Administration (Demand)

45.1001-421 3 hrs. cr. Administrative aspects of government; surveys the major sub-fields of public administration, i.e., politics and administration, organizational theory, organizational behavior, management, decision making, personnel, public budgeting and finance, policy analysis and program evaluation and administrative law. Prerequisite: Junior standing or consent of instructor.

Constitutional Law I (F, Even)

45.1001-431 3 hrs. cr. Political and legal aspects of Supreme Court decision making, the nature and scope of judicial review, the constitutional relationships between levels and branches of government and the First Amendment rights of freedom of expression.

Constitutional Law II (S, Odd)

45.1001-432 3 hrs. cr. Legal issues concerning the First Amendment areas of free exercise and establishment of religion, the right to privacy, the 14th amendment due process and equal protection clauses and the rights of the accused in criminal cases.

Internship in Political Science (Demand)

45.1001-496 3 to 8 hrs. cr. Observation of and participation in governmental work under the direct supervision of a faculty member and a professional who is employed in the governmental position being observed. No more than 3 hrs. may be counted toward a major or minor.

Seminar in Political Science (Demand)

(Writing Intensive) 45.1001-498 3 hrs. cr. Specialized knowledge and/or current research in the discipline. Topics will vary by situation and instructor. Students will prepare and critique papers based on original research. Prerequisite: 9 hrs. of upper division political science.

Independent Study (F, S)

45.1001-499
1-2-3-4 hrs. cr. For students who wish to do an in-depth study of some specialized topic or who wish to pursue a topic not considered in the department's course offerings. The student will select an adviser from the political science faculty who will structure the independent study in consultation with the student and with the approval of the department head. Prerequisite: Junior or senior status and an overall cumulative GPA of 3.0 or better. Enrollment must be approved by department head and school dean.

Sociology (Soc)

Introduction to Sociology (F, S)

45.1101-110 3 hrs. cr. A systematic study of society. Emphasis on major concepts of sociology and the scientific point of view in dealing with social phenomena. Satisfies a Core Curriculum requirement.

Physical Anthropology and Archaeology (F)

45.1101-155

3 hrs. cr. Physical and cultural anthropology with particular emphasis on the linkage of human prehistory to the development of culture and the human capacity for society. Can be used to satisfy the Core Curriculum requirement in Area 5.

Social Problems (F, S)

45.1101-210 3 hrs. cr. Causes and consequences of economic, political and social problems that significantly affect society and the quality of life in it. Emphasis on elements and processes within the structure of American society rather than on individual pathologies and behaviors as causes of social problems. Some analysis of possible solutions is also included. Prerequisite: Soc 110.

Marriage and Family (F)

45.1101-221 3 hrs. cr. Paired relationships, marriage as the genesis of family life, elements in the preparation for marriage and parenthood and the development of family relationships throughout the life cycle.

The Sociology of Death and Dying (F)

45.7101-291 3 hrs. cr. A review of the international religious, secular and scientific expressions regarding death. Historical and current issues pertaining to death are explored and a critical perspective is taken on all positions. The course incorporates both philosophical and pragmatic overviews of death and dying.

Topics in Sociology (Demand)

45.1101-298 3 hrs. cr. Special sociology topics of current interest. Subjects and instructors may vary each semester.

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Students are encouraged to submit areas of interest to the social science department.

Computer Applications in the Social Sciences (S) 45.1101-300 3 hrs. cr. An analysis of computers and their applications in the social sciences. Focus on pre-existing software designed for use by social science disciplines. Emphasis on data entry, analysis and interpretation of printouts. Prerequisite: Comp 105 and Psy 320. Advised to be taken with Soc

Sociology of Religion (F)

45.1101-301 3 hrs. cr. Religion as a major social institution. Compares religions regarding behavioral content. Major attention is given to the nature of religion, organized religion and how religion is integrated into society. Limited attention given to the behavioral expectations associated with the major religions of the world. Prerequisite: Soc 110.

Sociology of Aging (S)

45.1101-306

A review of aging studies with particular emphasis on needs, problems, areas of concern, aging theories, social services for the elderly and accumulated data from gerontological research. Such topics as life changes, retirement and alternative life styles among the elderly will be analyzed. Prerequisite: Soc 110.

Multi-Cultural Aging (F)

45.1101-309

3 hrs. cr. An analysis of older people in different cultures and how the normative structure of each culture creates variation within the aged. Roles the elderly play in day-to-day life and how their positions influence intergenerational relationships will be examined. Emphasis will be placed on cultural groups within the United States and select groups in other countries. Prerequisite: Soc 110.

Social Stratification (F)

(Writing Intensive) 45.1101-311

45.1101-311

3 hrs. cr. Examination of differences in power, privilege and prestige. Analysis of the nature and input of social inequality on people's lives within the United States and an overview of the complex array of social structures which comprise international systems of inequality. Theoretical explanation for the variations in social class usually incorporated in course requirements. Prerequisite: Soc 110.

Juvenile Delinquency (S)

45.1101-312 3 hrs. cr. Analysis of environment and social background for juvenile delinquency behaviors. Investigation of behavioral content and scope of official delinquency. Review of the influences of family, school, peer groups and gangs and the juvenile justice and corrections system. Prerequisite: Soc 110.

Sociology of Work and Leisure (S)

45.1101-322 3 hrs. cr. Analysis of work, occupations, career mobility and job satisfaction as important elements in society. Examination of leisure activities which alter with technological advances and the changing economic base. Prerequisite: Soc 110.

Introduction to Social Work (F)

45.1101-331 3 hrs. cr. Philosophical and historical development of social work as a professional career. Focuses on role of the social worker within the various practice settings. Will entail field trips and guest speakers.

Social Work Practice (S)

45.1101-332 3 hrs. cr. Emphasizes the development of skills needed to initiate, enhance, or restore relationships between clients and society. Focuses on techniques and case management, analysis of cases and practical experience in a social agency or community program providing human services. Admission dependent on departmental committee approval. Prerequisite: Soc 331 and junior standing.

Social Psychology (F)

42.1601-341 3 hrs. cr. (See Psy 341)

Comparative Cultures (S)

45.1101-342 3 hrs. cr. A comparative study of human society and culture, focusing on theories of culture and cultural institutions as they relate to contemporary preindustrial peoples. An ethnographic examination of representative groups is provided for purposes of cross-cultural comparison. Can be used to satisfy the Core Curriculum requirement in Area 5. Prerequisite: Soc 110 or 155 or consent of instructor.

Criminology (F)

45.1101-351 3 hrs. cr. Social and legal concept of crime. Review of measurements and data of crime(s) and the theories related to the cause of criminal behaviors. Discussion of profiles of different adult offenders and their behavioral characteristics relative to the major felonies committed in contemporary society. Prerequisite: Soc 110.

Sociology of Medicine (S)

45.1101-354

3 hrs. cr. A review of certain sociological data which affect people's health status, health care and health outlook. Focus on aging, social stratification, demographics and economic issues relevant to health status. A review of the history, change and cross cultural comparisons of health care. Prerequisite: Soc 110.

The Study of Populations (F)

45.1101-361 3 hrs. cr. Changes in human population through an analysis of birth rates, death rates and migrations. Social demographic analysis of census and in-

dependent research data. Various population theories are applied to national and world situations. Concepts of overpopulation, minority groups and aging are analyzed. Prerequisite: Soc 110.

Deviant Behavior (S)

45.1101-362

3 hrs. cr. Theoretical explanations of socially disapproved behavior from the sociological perspective and the application of these concepts to specific forms of deviance. Analysis of the social nature of conforming behavior as a way of increasing understanding of deviant behavior. Prerequisite: Soc 110 and Soc 210 (or) consent of instructor.

Minority Groups and Race Relations (S)

45.1101-382 3 hrs. cr. A study of racial and cultural groups particularly focusing on the United States with some analysis of international ethnic relations. Analyzes several general theories and explanations for minority-dominant relations. Includes a study of legislation affecting minorities in the U.S. Prerequisite: Soc 110 or consent of instructor.

Penology and Corrections (F)

45.1101-391 3 hrs. cr. Philosophy, history and operations of penitentiary systems with special attention given to changes in adult institutions. Explanation of the problems associated with prison populations and types of facilities along with sentences, therapeutic models and community treatment. Prerequisite: Soc 110.

The Community - Rural and Urban (S)

(Writing Intensive) 45.1101-402 3 hrs. cr. Social processes of human groups who share common unities of territory and cultural bonds. Major attention on gemeinschaft-gesellschaft theories as they pertain to national, rural, urban, ethnic and subcultural communities and how these intertwine in contemporary societies. Prerequisite: Soc 110.

Sociological Research Methods (F)

45.1101-431 3 hrs. cr. Methods of problem and hypotheses formulation and data collection, including interviewing and instrumentation. Focus on the analysis of research findings and ethical procedures. Emphasizes survey designs employed in sociological inquiry. Prerequisite: 12 hrs. of sociology.

Mass Society and Social Movements (F)

45.1101-445
3 hrs. cr.
Critical analysis of the structural elements of contemporary mass society and their effect on social groups and individuals. The function of social movements as forms of resistance and change in modern society. Prerequisite: 9 hrs. of sociology or consent of instructor.

Sociological Theory (S)

45.1101-482 3 hrs. cr. Classical and contemporary theory placed in

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historical perspective. An analysis and interpretation of social groups, social organizations and social systems through the study of social thought from Auguste Comte to theorists in the modern period. Prerequisite: 9 hrs. of sociology.

Internship in Sociology (Demand)

45.1101-496

1-8 hrs. cr.
Observation of and participation in various social service agencies in the community. All internships must conform with institutional policy regarding the number of hours per credit and contractual agreements with cooperating agency personnel. No more than three hours may be counted toward a major or minor. Prerequisites: 15 hrs. of sociology, junior standing or above and approval of a departmental committee.

Seminar in Sociology (Demand)

45.1101-498
3 hrs. cr. For upper division sociology majors. Topics covered and methods used will place emphasis on student-instructor interest, desire to pursue indepth research and ability to assimilate topics. It will include areas not already treated in other sociology courses. Prerequisite: 15 hrs. of sociology or consent of instructor.

Independent Study (Demand)

45.1101-499 1-2-3 hrs. cr. Structured by the adviser with the approval of the department head and school dean. Prerequisite: Advanced standing in the major field with a GPA of 3.0. Enrollment in the course must be approved by department head and dean.

Theatre (Th)

Theatre Performance (F, S, S)

50.0501-101,102,201,202,301,302,401,402 1 hr. cr. The performance of a role, service as a designer or stage manager which has met departmental standards on a major production. A student may accumulate up to 8 hours of credit. Credit is applied for after production closes. Credit applies only to accumulative graduation hours.

Theatre Appreciation (F, S, S)

50.0501-110 3 hrs. cr. Introduction to the what, why, how and who of theatre. Sessions deal with dramatic form, style and structure; the contributions of various theatre artists; and interpretation and evaluation of plays through scripts and live and taped performances. Provides knowledge and experience for personal enjoyment and evaluation of theatre art. Satisfies 3 semester hours of Core Curriculum requirement in humanities and fine arts, Area 2A or 2C.

Theatre Laboratory (F, S)

50.0501-121,122,221,222,321,322 2 hrs. cr. A laboratory devoted to mounting the theatre's season. Meets two hrs. in sequence twice a week.

Theatre Technology (S, Even)

50.0501-142 3 hrs. cr. Hardware and tool usage and technical drawing as applied to theatre. The use of electricity, sound and electronics in the theatre. Stage rigging.

Oral Interpretation (F, Odd)

50.0501-212 3 hrs. cr. Principles and techniques for the public presentation of oral reading. Selection, analysis and preparation of different types of literature with emphasis on platform presentation of prose, poetry, drama and Readers Theatre.

Speech for Stage (F, Odd)

50.0501-231 3 hrs. cr. Exercises and drills to improve projection, quality, flexibility and effectiveness of the speaking voice leading to good usage in Standard American speech, based on the International Phonetic Alphabet.

Costume Technology (S, Odd)

50.0405-232 3 hrs. cr. Basic techniques for construction of stage costumes from a designer's sketch. Areas covered are: fabrics, pattern development, cutting, sewing, dyeing and crafts. No previous skills required. Two hours lecture, 2-hrs. lab per week.

Stage Makeup (F, Odd)

50.0501-233 1 hr. cr. Basic techniques in design and application of stage makeup. Surveys categories of professional makeup techniques as well as sources and costs of material. Two class hrs. in sequence.

Acting I (S, Even)

50.0501-241 3 hrs. cr. Development of individual's ability to express thought and emotion through effective use of the voice and body. Character analysis and creation revealed in exercises and scene work.

Theatre Movement I (Demand)

50.0501-242

1 hr. cr. Historical development and implementation of theatrical movement. Exercises and assignments focus on the enhancement of non-verbal character interpretation through individual study and in-class application of movement, gestures and postures, including an assimilation of cultural influences, pantomime, masque and improvisation. Two 1-hr. labs per week.

Summer Theatre Production (Demand)

50.0501-250

1-6 hrs. cr.
Students serve as cast and crew members for a summer production. Practical theatre experience in acting, design and construction of all areas, plus theatre management.

Audition Techniques for the Actor (S, Odd)

50.0501-251 1 hr. cr. Techniques of auditioning and interviewing in the theatre: selecting audition pieces, rehearsing and performing auditions. Instruction in preparing resumes and photographs for professions.

Exploration in Theatre (Demand)

50.0501-298 3 hrs. cr. Concentrated study on a variety of selected

theatre topics. Each offering on a different subject. May be repeated, but same topic only once.

Stage Management (F, Even)

50.0501-311 2 hrs. cr. Fundamentals of stage management. Organization of call board, rehearsals and performances. Communication procedures between actors, director and designers. Calling the show. Prerequisite: Th 142.

Stage Lighting (Demand)

50.0499-320 3 hrs. cr. Lighting design approached artistically. The use of lighting for atmosphere, mood and emphasis. Lighting as applied to art, television, theatre and motion pictures. Prerequisite: Th 142.

History of the Theatre (F, Even)

(Writing Intensive)
50.0501-331
3 hrs. cr.
Theatre from primitive time through the Elizabethan period. Theatre and stage architecture, scene design, acting styles, theatre management and the culture surrounding the theatrical event. Analysis of their relationship to dramatic literature

History of the Theatre (S, Odd)

50.0501-332 3 hrs. cr. Plays, playwrights and dramatic criticism from the Elizabethan and Jacobean era to contemporary theatre and the evolution of the physical theatre, staging and production practices.

Acting II (F, Even)

50.0501-341 3 hrs. cr. The dynamics of analysis, rehearsal and performance of scenes from contemporary and classic plays. Emphasis on the actor's relationship to the play and to other actors. Prerequisite: Th 241.

Directing I (F, Even)

50.0501-351 3 hrs. cr. A comprehensive study of various problems confronting a stage director. Techniques and procedures for play selection, analysis and mounting a production. Scene directing. Prerequisite: Th 241.

History of Costume (F, Odd)

50.0405-361 3 hrs. cr. Survey of the garments and fabrics worn in Western cultures from Ancient Greece through the 19th Century. Emphasis is on the social and economic reasons which caused styles to change. (Recommended as prerequisite for Stage Costume Design.)

Stage Costume and Design (S, Even)

50.0405-362 3 hrs. cr. Theory and practical aspects of costume design. Emphasis on non-verbal communication of theme, character and historical period through rendered costume designs. Recommended prerequisite is History of Costume.

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Directing II (S, Odd)

50.0501-372 3 hrs. cr. Study of the skills and role of a director, casting, production administration and director-actor relationship. Experience and group evaluation in directing one-act plays before departmental or public audience. Prerequisite: Th 351.

Acting III (S, Odd)

50.0501-422 3 hrs. cr. Lecture and laboratory study of physical manners and speech in relationship to various periods of theatre presentation. Prerequisite: Th 341.

Creative Dramatics (F, Odd)

50.0501-431 3 hrs. cr. Methods and techniques of teaching dramatic improvisations for young people through the exploration of various art forms appropriate for dramatic presentation with an emphasis on storytelling.

Stage Design (F, Odd)

50.0405-441 3 hrs. cr. Foundations of design. Sketching, rendering and perspective techniques. Communications between designers and directors. Prerequisite: Th

Theatre Studies (Demand)

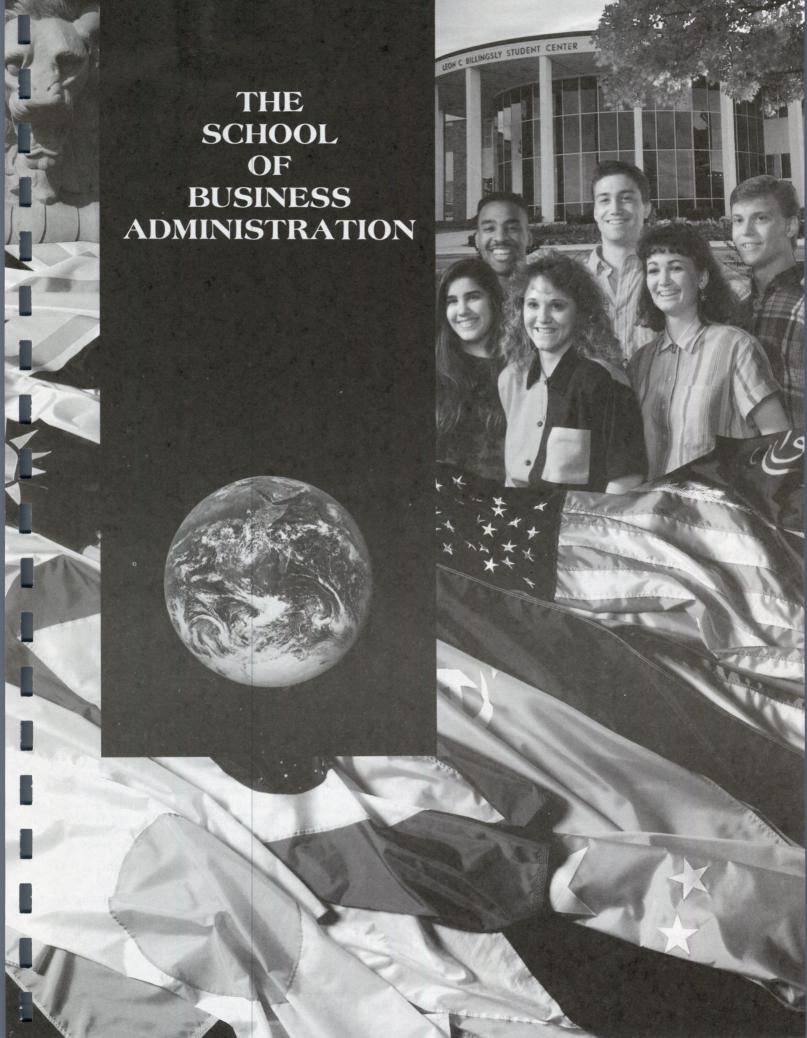
50.0501-498 3 hrs. cr. Seminar in theatre for advanced students. Topic open. Approval of department head. Prerequisite: Advanced standing in major field with a GPA of 3.0. Enrollment must be approved by adviser, department head and school dean.

Independent Study in Theatre (F, S)

50.0501-499
1-3 hrs. cr.
Structured by the adviser with approval of department head. Prerequisite: Advanced standing in major field with GPA of 3.0. Enrollment must be approved by adviser, department head and school dean.

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School of Business Administration

School Dean

James M. Gray Matthews Hall 302, 625-9319

Degrees and Majors

Bachelor of Science in Business Administration

Accounting
Economics and Finance
General Business
Management
Marketing

Bachelor of Science in Education

Business Education as a single teaching field

Business Education as one of two teaching fields

Bachelor of Science

Management Technology

Associate of Science

Accounting General Business Office Administration

One-year Certificate of Achievement

Secretarial Science Concentration Entrepreneurship

Role

The aim of all activity in the School of Business Administration is to assist students in the development of those intellectual, personal and professional attributes which will prepare them to exercise responsibility in the complex business environment of the future. The faculty of the School of Business Administration recognizes that the pace of change in our society will quickly render vocationally oriented information and training obsolete and that the routine details and techniques of the world of work must be acquired through actual experience. The role of the School of Business Administration, therefore, is not to teach skill specific techniques or to offer training for the first job, but to provide the educational opportunity to allow students to develop familiarity with analysis, communications, leadership and interpersonal relations within the context of professional education for business administration.

Objectives

The objectives of the School of Business Adminstration are:

 to maintain a relevant curriculum which will provide the necessary managerial and administrative education for the School of Business Administration graduates:

- to prepare the School of Business Administration graduates for leadership roles by stimulating rigorous, imaginative, analytical and probing attitudes so that the graduates can express themselves competently and apply problem-solving techniques;
- to provide a faculty committed to teaching excellence, community service and research;
- to maintain facilities and equipment necessary to foster high quality education in the School of Business Administration;
- to interact with the business community to identify and serve their educational needs and to provide opportunity for professional growth for our students and faculty.

Student Organizations

The National Association of Accountants Student Affiliate Organization is open to accounting students who seek association with practicing accountants. Students may attend regular meetings of the Joplin Tri-State chapter, as well as monthly student group meetings.

Future Secretaries Association is open to all students with an interest in office administration and business education and is sponsored by Professional Secretaries International. Students are involved in a variety of service projects.

Pi Omega Pi is an honorary business education fraternity open to students with three semesters or 15 hours credit in business and education and a 3.0 grade point average.

Omicron Delta Epsilon is the honorary economics fraternity open to juniors with a 3.0 overall grade point average and at least 9 hours in economics, with a 3.0 in the economics courses.

Phi Beta Lambda is based on a set of goals which includes the development of competent and aggressive business leadership, creation of more interest and understanding of American business enterprise and participation in worthy undertakings for the improvement of business and citizenship. PBL is open to all business and computer science students and serves as a vehicle for professionals.

Students in Free Enterprise (SIFE) is a nonprofit corporation organized to promote the free enterprise system. The group has participated in national competitions, finishing as high as second on two different occasions.

Financial Management Association is open to all economics and finance majors and has a National Honor Society designation for those economics and finance majors who have a cummulative GPA of 3.25 and at least six hours in finance.

Small Business Development Center

The School of Business Administration, in conjunction with the Small Business Administration, has formed a Small Business Development Center which encompasses the following areas:

The Southern Business and Economic Review

The Southern Business and Economic Review is published quarterly by the Bureau of Business and Economic Research within the School of Business Administration. Each issue contains local economic indicators and articles of interest to local business people. The Bureau also maintains a data bank of economic statistics which is available to local business people.

Small Business Institute

The Small Business Institute allows students to consult with small businesses that request assistance. This provides valuable experience for our senior students. They are able to apply some of the theory they have learned to "real life" situations. The Small Business Administration funds the program and there is no charge to the businesses.

Business and Economic Lecture Series

The School of Business Administration sponsors an annual lecture series. Speakers of interest to both students and local business people appear each semester. Normally they speak both during the day and the evening. J. Peter Grace and William S. Rukeyser are two of the prominent speakers who have appeared in the series.

Management Development Institute

The School of Business Administration has established a Management Development Institute to help local businesses with their training and educational needs. The Center seeks to serve those needs by developing

Accounting

and/or coordinating various seminars for the local businesses.

Center for Entrepreneurship

The primary purpose of the Center for Entrepreneurship is to provide relevant and practical information concerning starting and running a small business. The Center also seeks to encourage new business startups by providing student consultants and faculty evaluation of business plans.

Business Core Requirements

All B.S.B.A. candidates must take the following "core" courses in addition to the courses required in their major:

Business Administration Core Requirements

	Semester	Hours				
Acct 201	Prin of Accounting I	3				
Acct 202	Prin of Accounting II	3				
Econ 201	Prin of Economics-Macro	3				
Econ 202	Prin of Economics-Micro	3				
MM 237	Managerial Data Processin	ng				
		2				
GB 301	Business Law I	3				
GB 320	Business Comm	3				
GB 321	Business Statistics I	3				
MM 300	Prin of Marketing	3				
MM 350	Prin of Management	3				
Econ 350	Financial Management	3 3 3 3 3 3 3 3 3 3				
MM 452	Business Policy	3				
Advanced	Business Elective*	3				
Total Busin	ness Core	39				
*Must be	selected in consultation	with				
	om 300 or 400 level cours					
	Business Administration. M.					
	le counted" as part of maj					
	ts. Mathematics - All cand					
	.S.B.A. degree must con					
	tics 131, Finite Mathematic					
their Core Curriculum mathematics course.						

Minor in Business:

Acct 201	Prin of Accounting I	3
Acct 202	Prin of Accounting II	3
MM 237	Managerial Data Processin	g
		3
Econ 202	Prin of Economics-Micro*	3
Econ 350	Financial Management	3
MM 300	Prin of Marketing	3
MM 350	Prin of Management	3
Total for A	Ainor	21
*Econ 201	should be taken as a Core	Cur-
riculum r	equirement.	
		7/1

Accounting

Faculty Cunningham, Finke, Goode, Paapanen, Rohrer, Shaver

The major in accounting leads to the B.S.B.A. degree. A concentration in accounting is also available within the A.S. degree.

The B.S.B.A. degree with the accounting major is designed to prepare the student to enter any area of the accounting profession and to sit for the Certified Public Accountant, or other professional certification examination.

Students planning to sit for the C.P.A. or other professional certification examination and those planning to attend graduate school should consult with their adviser early in their academic program in order to assure that all required courses are taken.

The A.S. accounting program of study is designed to prepare the student for bookkeeping tasks which are a part of the accounting function. Graduates of this program usually serve at the first level in accounting firms or private businesses.

Bachelor of Science in Business Administration with an Emphasis in Accounting

Semester I	Hours				
Core Curriculum Requirements (page 3	35) 51				
Business Core Requirements	39				
Accounting Emphasis	23				
Acct 310 Cost Accounting	3				
Acct 312 Intermediate Accounting I	4				
Acct 322 Intermediate Accounting II	4				
Acct 375 Tax Accounting I	3				
Acct 402 Advanced Accounting	3				
Acct 411 Auditing	3				
Advanced Accounting Elective (must be					
chosen with adviser approval)	3				
Electives 15 128					

Associate of Science with a **Concentration in Accounting**

Concentration in Accounting				
	Semester	Hours		
Core Curi	riculum Requirement	25-26		
Accountin	ng Concentration	40		
GB 320	Business Communications	3		
GB 115	Business Math/			
	Microcomputers	3		
Acct 201	Prin of Accounting I	3		
Acct 202	Prin of Accounting II	3		
Acct 312	Intermediate I	4		
Econ 201	Prin of Economics-Macro	3		

Econ 202	Prin of Economics-Micro	3
MM 237	Managerial Data Processing	3
Acct 310	Cost	3
MM 350	Prin of Management	3
	Business Law I	3
Acct 375	Tax Acct I	3
Elective se	elected from:	3
Acct 411		
Acct 421	Governmental and Non-pro	fit
	Acct	
GB 302	Business Law II	
GB 321	Business Statistics	
		55-66

Suggested Order of Study

Bachelor of Science in Business Administration Major Code 0502

Accounting Emphasis Freshman Year 1st Semester Course

Course	110	Juis
CORE	[Eng 101 Comp I]	3
CORE	[Math 131 Finite Math]	3
CORE	[PSc 120 Gov't: U.S., State, Local]	3
CORE	[Bio 101 General Biology]	4
CORE	[HPER 103 Lifetime Wellness]	2
Psy 120	College Orientation	1
		16
2nd Sem	ester	
CORE	[Eng 102 Comp II]	3
CORE	[Psy 100 Fund of Phys Scil	5

CORE	[Eng 102 Comp II]	3
CORE	[Psy 100 Fund of Phys Sci]	5
CORE	[Comm 100 Oral Comm]	3
CORE	[Psy 100 or Soc 110]	3
CORE	[HPER 101 Physical Activity]	1
		15

Sophomo	re Year	
1st Semes	ster	
Acct 201	Prin of Accounting I	3
CORE	[Econ 201 Prin of Economics-Macro] 3
MM 237	Managerial Data Processing	3
CORE	[Fine Arts (Art 110, Mus 110 or Th	
	110)]	3
CORE	[Hist 110 American History]	3
		15
2nd Seme	ester	

		1.
2nd Seme	ster	
Acct 202	Prin of Accounting II	
	Prin of Economics-Micro	
CORE	[Literature (Eng 261, 262, 271, 2 or 282)]	72, 28
CORE Elective	[Hist 120 American History]	
Elective		1.
Junior Yea		

Junior Yea		
1st Semes	ster	
Acct 312	Intermediate Accounting I	
	Cost Accounting	
GB 301	Business Law I	
MM 350	Prin of Management	
	Prin of Marketing	
		1

Economics and Finance

Acct 375 GB 320 GB 321	Intermediate Accounting II Tax Accounting I Business Comm Business Statistics	4 3 3 3	Econ 202 Acct 310	Prin of Management Prin of Economics-Micro Cost Accounting Jective (Acct 411, Acct 421, GB 302	3 C 3 C 2,	ORE ORE ORE	[Comm 100 Oral Comm] [Psy 100 or Soc 110] [HPER 101 Physical Activity]	3 3 1 15
	Business Elective (GB 302 stron	gly 3				ophomore st Semest		
recomm	nended)	16	Fron	omics and		cct 201	Prin of Accounting I	3
						ORE	[Econ 201 Prin of Economics-	,
Senior Yea	ar .		Finar	ice		OKL	Macrol	3
1st Semes			Faculty	Bradshaw, R. C. Brown, Ebe	er- N	1M 237	Managerial Data Processing	3
Acct 411		3		wal, La Near, Larson, Leitle, Ma	_	ORE	[Fine Arts (Art 110, Mus 110 or	r Th
Econ 350	Financial Management	3		er, Rawlins	ui		110)]	3
CORE	[International Cultural Studies]	(GB	ion, wille	i, Rawiiiis	C	CORE	[Hist 110 American History]	3
	310 strongly recommended)	3	The B.S.B	S.A. economics and finance maj	jor			15
CORE	[Humanities and Fine Arts Elect		course o	of study is designed to prepare	are			
	(See Core requirements, pag		graduates	s for managerial positions in fina		nd Semes		
F1		3		utions, corporate research, for	re- A	cct 202	Prin of Accounting II	3
Electives		6		overnment and other public a	nd E	con 202	Prin of Economics-Micro	3
		18		ctor positions, as well as for gra		CORE	[Literature (Eng 261, 262, 271,	
and Com-	estor		uate stud			COPE	281 or 282)]	3
2nd Seme	Advanced Accounting	3	Printer,	the state of the s		CORE lective	[Hist 120 American History]	3
	Advanced Accounting	3	Bache	lor of Science in	L	lective		15
	selected with adviser approval)	1310		ess Administration				
	Business Policy	3			li li	unior Year		
Electives		8	with a	n Emphasis in		st Semest		
		17	Econo	mics and Finance		con 300	Money and Banking	3
		128		Semester Hou		con 401	Microeconomic Analysis	3
			Core Cur	riculum Requirements		GB 301	Business Law I	3
	of Science		(page 35)		51 N	MM 350	Prin of Management	3
Major Co			Business		39 N	MM 300	Prin of Marketing	3
Accountin	ng Concentration			cs and Finance Major:	18			15
Freshman	Year			Money and Banking 3				
1st Semes	ster			Microeconomic Analysis 3	2	nd Seme		
Course		Hours		Macroeconomic Analysis 3	E	con 402	Macroeconmics Analysis	3
	Prin of Accounting I	3		Investments 3	L	con 350	Financial Management	3
CORE	[Eng 101 Comp I]	3		d Econ Elective 6		GB 320	Business Comm	3
CORE	[PSc 120 or Hist 110]	3		selected in consultation with a		GB 321	Business Statistics I Business Elective	3
GB 115 CORE	Business Math/Micro [Math 30 or higher]	3		n Econ courses numbered 300			selected in consultation with fac	culty
CORE	[HPER 103 Lifetime Wellness]	2			OI (from courses numbered 300 or	
CORL	[THER TOS Ellettine Welliness]	17	Electives	cluding Econ 415.)	20		vithin the School of Business	
			Electives			Adminis		3
2nd Seme	ester				128 E	Elective		3
	Prin of Accounting II	3						18
CORE	[Psy 100 or Soc 110]	3	-					
CORE	[Comm 100 Oral Comm]	3	Sugge	sted Order of Study	S	Senior Yea	ır	
CORE	[Art 110, Mus 110, Th 110, Lite	erature		of Science in Business Administration	on 1	Ist Semes	ter	
	or Phil 201]	3	Major Co		E		Investments	3
GB 320	Business Comm	3	,	s and Finance Emphasis			Elective in Econ	. 3
CORE	[HPER 101 Physical Activity]	1					in consultation with faculty adv	iser
		16	Freshman				ses numbered 300 or above)	1 2
Sonhama	aro Voar		1st Semes CORE	[Eng 101 Comp I]	3	CORE	[International Cultural Studies (GB 310 strongly recommended)	
Sophomo 1st Seme			CORE	[Math 131 Finite Math]		CORE	[Humanities and Fine Arts Ele	
	Intermediate Accounting I	4	CORE	[PSc 120 Gov't: U.S., State, Loca		COILL	L. Tamanices and Time Arts Lie	3
GB 237	Managerial Data Processing	3	JUNE	1. 50 120 501 ti 6.5., State, Loca	3		(See Core Curriculum, page 3	
GB 301	Business Law I	3	CORE	[Bio 101 General Biology]		Electives	, page	6
CORE	[Bio 110 or Phys 100]	4-5	CORE	[HPER 103 Lifetime Wellness]	2			18
CORE	[Econ 201 Prin of Economics-M		Psy 120	College Orientation	1			
		3		A STATE OF THE STA	16 2	2nd Seme	ester	
		17-18			1	MM 452	Business Policy	3
		., .0						
		.,	2nd Seme			Econ	Electives	13
2nd Sem	ester Tax Accounting I	3	2nd Seme CORE CORE	ester [Eng 102 Comp II] [Phys 100 Fund of Phys Sci]	3 5	con	Electives	13 16 128

Entrepreneurship/General Business

Entrepreneurship Faculty Bradshaw, Kleindl
A concentration in entrepreneurship is offered for all students, regardless of major, to enhance success of small business startups. This concentration prepares the students to start their own businesses.

Requirements for a Concentration in Entrepreneurship:

	Semester Ho
Ent 201	Entrepreneurship -
	Developing a Business Plan 1
Ent 202	Entrepreneurship - Business
	Opportunities 1
Ent 203	Entrepreneurship - Legal
	Aspects 1
Ent 204	Entrepreneurial Financing and
	Information - Initial
	Capitalization 1
Ent 205	Entrepreneurial Financing and
	Information - Cash Flow
	Budgeting 1
Ent 206	Entrepreneurial Financing and
	Information - Microcomputer
	Applications 1

	Applications
Ent 207	Accounting for the New
	Venture - Procedures
Ent 208	Accounting for the New
	Venture - Records
Ent 209	Accounting for the New
	Venture - Taxation
Ent 210	Managing the Small Business

Ent 210	Managing the Small Business
	- The Management Process 1
Ent 211	Managing the Small Business
	- Strategic Planning and
	Organizing 1
Ent 212	Managing the Small Business
	- Human Relations 1
Ent 213	Marketing the Small Business

	- Promotion	1
Ent 214	Marketing the Small Bu	usiness
	- Pricing	1

	- Pricing
Ent 215	Marketing the Small Business
	- Merchandise/Inventory

General Business

Bradshaw, Compton, Cragin, Culwell, Finke, Grim, Johnson, Kleindl, Leitle, Miller, Rusley

The B.S.B.A. degree program in general business is intended to give the broadest possible background to the graduate and to prepare the graduate for managerial positions in the public and private sectors. The A.S. degree program prepares the graduate for first line supervisory and managerial duties.

Bachelor of Science in Business Administration with an Emphasis in **General Business**

	Semester	Hours
Core Cur	riculum Requirements	
(page 35)		51
Business	Core (page 103)	39
	Business Emphasis:	18
Acct 325	Managerial Acct	3
Econ	(selected from 300, 302,	
	312, 322, 330, 401, 411, 4	12,
	415)	3
MM	(selected from 352, 410,	
	412, 431, 441)	3
MM	(selected from 312, 321,	
	401, 412, 432, 470)	3

	(Sciected Holli Siz) Szi)	
	401, 412, 432, 470)	3
MM	337 Management	
	Information Systems	3
Advanc	ed Business Elective (must	be
selecte	d with adviser consultation	and
approv	al)	3
Elective	es	20
		128

Associate of Science in General Business

	Semester	Hours				
Core Curr	riculum Requirements					
(page 35)		25-26				
General B	Susiness Concentration	27				
GB 115	Business Math/Micro	3				
Acct 201	Prin of Accounting I	3				
Acct 202	Prin of Accounting II	3				
Econ 201	Prin of Economics-Macro	3				
Econ 202	Prin of Economics-Micro	3				
GB 301	Business Law I	3				
GB 302	Business Law II	3				
MM 300	Prin of Marketing	3				
MM 350	Prin of Management	3				
Business E		12				
(Must be selected with approval of faculty						
adviser)		64-65				

Suggested Order of Study

Bachelor of Science in Business Administration Major Code 0501 **General Business Emphasis**

Freshman	Year	
1st Semes	ster	
CORE	[Eng 101 Comp I]	3
CORE	[Math 131 Finite Math]	3
CORE	[PSc 120 Gov't: U.S., State, Loc	al]
		3
CORE	[Bio 101 General Biology]	4
CORE	[HPER 103 Lifetime Wellness]	2
Psy 120	College Orientation	1
1		16

2.16		
2nd Seme		
CORE	[Eng 102 Comp I]	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Comm 100 Communications]	3
CORE	[Pys 100 or Soc 110]	3
CORE	[HPER 101 Physical Activity]	1
		15
Sophomor	e Year	
1st Semes		
Acct 201	Prin of Acct I	3
CORE	[Econ 201 Prin of Economics-	
	Macro]	3
MM 237	Managerial Data Processing	3
CORE	[Fine Arts (Art 110, Mus 110 or	Th
	110)]	3
CORE	[Hist 110 American History]	3
		15
2nd Seme		
Acct 202	Prin of Acct II	3
Econ 202	Prin of Economics-Macro	3
CORE	[Literature (Eng 261, 262, 271, 2	72,
	281 or 282)]	3
CORE	[Hist 120 American History]	3
Elective		3
		15
Junior Yea		
1st Semes		
Acct 325	Managerial Acct	3
MM 337	Management Information Syste	ms
		3
GB 301	Business Law I	3
MM 350	Prin of Management	3
MM 300	Prin of Marketing	3
		15
2nd Seme		-
Advanced	Elective in Econ/Fin	3
	(Must be selected from Econ 30	
	302, 312, 322, 330, 401, 402, 4	111,
	412 or 415	
Advanced	Elective in Management	3
	(Must be selected from MM 35	2,
	410, 412, 431, or 441)	
GB 320	Business Comm	3
GB 321	Business Statistics	3
	Business Elective (Must be selec	
	ultation with adviser from course	
	red 300 or above within the School	
Busines	s Administration)	3
Electives		3
		18
Senior Yea		
1st Semes		2
Advanced	Elective in Marketing	3
	(Must be selected from MM 31	4,
	321, 401, 412, 432 or 470)	
Econ 350	Financial Management	3
CORE	[International Cultural Studies]	
	310 Strongly recommended)	3
CORE	[Humanities and Fine Arts] (See	9
	Core Curriculum Requireme	nts,
	page 35)	3
Electives		6

18

Electives

Management/Marketing

2nd Seme		Bachelor of Science in Junior Year					
Advanced	Business Elective 3	Business Administration			1st Semester		
	(Must be selected in consultation				MM 337	Management Info Systems	3
	with faculty adviser from	with a	n Emphasis in		Acct 325	Managerial Accountings	3
	courses numbered 300 or above	Mana	gement		GB 301	Business Law I	3
	within the School of Business				MM 350	Prin of Management	3
	Administration)		Semester Ho	ours	MM 300	Prin of Marketing	3
MM 452	Business Policy 3	Core Cui	riculum Requirements				15
Electives	10	(page 35		51			
	16		Core Requirement	39	2nd Seme	ster	
	128		nent Emphasis	18	MM 352	Personnel Management	3
	120			10	Econ 350	Financial Management	
Associate	of Science	MM 33/	Management Information			O	3
Major Cod			Systems 3	3	GB 320	Business Comm	3
		MM 352	Personnel 3	3	GB 321	Business Statistics	3
General B	usiness Concentration	MM 431	Operations 3			Business Elective	3
Freshman	Year				(Must be	selected in consultation with	faculty
1st Semes					adviser	from courses numbered 300 c	or
			Managerial Acct 3	3	above v	vithin the School of Business	
Course	Hours	Advance	d Elective (MM 410, 411 or		Adminis	stration) Elective	3
Acct 201	Prin of Accounting I 3		igly recommended) 3	3			18
CORE	[Eng 101 Comp I] 3	Electives	8.7 (220)	20			.0
GB 115	Business Math/Micro 3	Liectives			Soniar Van		
CORE	[Psy 100 or Soc 110] 3			128	Senior Yea		
CORE	[Math (30 or above)] 3				1st Semes		
CORE	[HPER 103 Lifetime Wellness] 2	Sugge	sted Order of Study		MM 431	Operations Management	3
00.112	17	-			MM 441	Organizational Behavior	3
	"	Major Co	of Science in Business Administration	ion	CORE	[International Cultural Studi	
2nd Seme	ster				CORE	310 Strongly recommende	
Acct 202	Prin of Accounting II 3	Managem	ent Emphasis		CORE	[Humanities and Fine Arts E	lective
CORE	[Econ 201 Prin of Economics-	Freshman	Year			(See Core Curriculum	
COKL		1st Semes				Requirements, page 35)	3
CORE	Macro] 3	Course		ours	Electives		6
CORE	[Hist 110 or PSc 120] 3						18
CORE	[Comm 100 Oral Comm] 3	CORE	[Eng 101 Comp I]	3			
CORE	[Art 110, Mus 110, Th 110,	CORE	[Math 131 Finite Math]	3	2nd Seme	ster	
	Literature or Phil 201)] 3	CORE	[PSc 120 Gov't: U.S., State, Local	al]	Advanced		3
CORE	[HPER 101 Physical Activity] 1			3			
	16	CORE	[Bio 101 General Biology]	4		selected in consultation facult	
		CORE	[HPER 103 Lifetime Wellness]	2		: MM 410, 411 or 412 strongly	
Conhomon	o Voor	Psy 120	College Orientation	1	recomn		
Sophomor		,		16	MM 452	Business Policy	3
1st Semes					Electives		10
Business E		2nd Seme	ctor				16
	(Must be selected with adviser	CORE		2			128
	approval)		[Eng 102 Comp II]	3			
GB 301	Business Law I 3	CORE	[Phys 100 Fund of Phys Sci]	5	Mark	eting	
MM 350	Prin of Management 3	CORE	[Comm 100 Communications]				
Econ 202	Prin of Economics-Micro 3	CORE	[Pys 100 or Soc 110]	3	Faculty	Bell, Blades, Bradshaw,	John-
	15	CORE	[HPER 101 Physical Activity]	1	,	ion, Miller	,
	15			15			
and C	otor				The B.S.I	B.A. with the marketing em	phasis
2nd Seme		Sophomore Year				ed to prepare graduates fo	
	Prin of Marketing 3	1st Semes			tions in r	retailing, sales managemen	t pro
Business E		Acct 201	Prin of Acct I	3			
	(Must be selected with adviser	CORE			motion,	research and general admi	inistra-
	approval)		[Econ 201 Prin of Econ-Macro]	3	tion.		
CORE	[Bio 101 or Phys 100] 4-5	MM 237	Managerial Data Processing	3			
GB 302	Business Law II 3	CORE	[Fine Arts (Art 110, Mus 110 or 7		Rache	lor of Science in	
	16-17		110)]	3			
	10-17	CORE	[Hist 110 American History]	3		ess Administration	1
Mono	domont			15	with a	n Emphasis in	
Malla	ngement en la company de la co						
Faculty	Bell, Blades, Bradshaw, Gray,	2nd Seme	ster		Marke	ung	
. /		Acct 202	Prin of Acct II	3		Semester	Hours
Johnson,	Marion, Miller, Stevens, Vernon	Econ 202	Prin of Econ-Micro	3	Core Cur		
The R C I	A degree with an amphasis in	CORE				riculum Requirements	51
	B.A. degree with an emphasis in	COKE	[Literature (Eng 261, 262, 271, 27			Core Requirements	39
	nent is designed to prepare the	CORE	281 or 282)]	3	Marketin	g Emphasis	18
	for entry level positions of	CORE	[Hist 120 U.S. History 1877 -			Retailing	3
	bility in both the private and	-1	Present]	3		Salesmanship	3
public se		Elective		3	1414 401	Promotional Strategy	
F 30.11C 3C		15			141141 401	Tomodonal Strategy	3

Management Technology/CIM

MM 412	Marketing Management	3
MM 432	Consumer Behavior	3
MM 470	Marketing Research	3
Electives		20
Licetives		128
		120
		l ce
Sugge	sted Order of Study	,
Bachelor o	of Science in Business Administrat	ion
Major Co	de 0507	
Marketing	g Emphasis	La y
Freshman	Year	
1st Semes		
Course		ours
CORE	[Eng 101 Comp I]	3
CORE	[Math 131 Finite Math]	3
COKE	[PSc 120 Gov't: U.S., State, Loc	3
CORE	[Bio 101 General Biology]	4
CORE	[HPER 103 Lifetime Wellness]	2
Psy 120	College Orientation	1
		16
0-16	The second second second	
2nd Seme CORE	[Eng 102 Comp II]	3
CORE	[Phys 100 Fund of Phys Sci]	5
CORE	[Comm 100 Communications]	3
CORE	[Psy 100 or Soc 110]	3
CORE	[HPER 101 Physical Activity]	1
		15
Sophomor	o Voar	
1st Semes		P 23
Acct 201	Prin of Acct I	3
CORE	[Econ 201 Prin of Econ-Macro]	3
MM 237	Managerial Data Processing	3
CORE	[Fine Arts (Art 110, Mus 110 or	
CORE	110)] [Hist 110 American History]	3
COKE	[Hist 110 American History]	15
		13
2nd Seme		
Acct 202 Econ 202	Prin of Acct II	3
CORE	Prin of Econ-Micro [Literature (Eng 261, 262, 271, 2	
CORL	281 or 282)]	3
CORE	[Hist 120 American History]	3
Elective		3
		15
Junior Yea	r	
1st Semes	ter	But to
GB 301	Business Law I	3
MM 350	Prin of Management	3 3 3
MM 300 GB 321	Prin of Marketing Business Statistics	3
Electives	business statistics	3
2.00011703		15

2nd Semester

MM 312

MM 321

GB 320

Retailing

Salesmanship

Business Comm

3

3

3

Electives		9
	(Must be selected in cons	
	with faculty adviser fron	
	courses numbered 300 c within the School of Bus	
	Administration)	
		18
Senior Year	r	
1st Semest	er	
MM 401	Promotional Strategy	3
MM 412	Marketing Management	3
CORE	[International Cultural Stud 310 Strongly recommend	
CORE	[Humanities and Fine Arts	
	(See Core Requirements	
	35)	3
Electives		6
		18
2nd Semes	ter	
MM 432	Consumer Behavior	3
MM 470	Marketing Research	3
MM 452	Business Policy	3
Electives		8
		17
		128
Mana	gement	
	nology	
recin	liology	

The B.S. in management technology major course of study is for students who have already received an associate degree in a technical field or other technical preparation approved by the adviser and school dean and who desire to obtain the necessary business skills to become technical supervisors or first line managers. Students must apply for admission to the program in the first semester of the junior year.

Bachelor of Science in Management Technology

Semester Hours **Core Curriculum Requirements** (page 35) Management Technology Major 42 (1) Required: 3 Acct 201 Prin of Accounting I Acct 202 Prin of Accounting II 3 GB 301 Business Law I 3 GB 302 Business Law II **GB 320 Business Comm** Econ 201 Prin of Economics-Macro Econ 202 Prin of Economics-Micro 3 Econ 350 Financial Management 3 MM 300 Prin of Marketing 3 MM 350 Prin of Management 3 MM 431 Operations Management (2) Three additional courses selected Acct 310 Cost Accounting

GB 321	Business Statistics I	
GB 237	Managerial Data	
	Processing*	
MM 401	Promotional Strategy	
MM 412	Marketing Management	
MM 352	Personnel Management	
MM 452	Business Policy	9
Electives	(includes courses already	
taken at associate level)		35
		128
*C+ +-	- L 4 - 1 - 1 A C '	

*Students obtaining an A.S. in computer science may not choose GB 237 as a required elective.

Management Technology (CIM Emphasis)

The School of Business Administration, in cooperation with the School of Technology, offers the Bachelor of Science in Management Technology with Emphasis in Computer Integrated Manufacturing (CIM).

The emphasis area is designed to recognize the revolution in the management of materials, production processes, personnel and information which has taken place in the last decade. This program takes advantage of the existing excellence Missouri Southern has achieved in the CADD and CAM areas and combines it with the latest advances in the business area as presented by course work in the School of Business Administration.

Students who complete this combination of courses will have been exposed to the new "World Class Management Technology" which will characterize manufacturing competition well into the next century.

Bachelor of Science in Management Technology (CIM Emphasis)

Semester Hours **Core Curriculum Requirements** (page 35) 51 **Management Technology** 36 Acct 201 Prin of Accounting I 3 Acct 202 Prin of Accounting II 3 Acct 325 Managerial Accounting 3 3 Econ 202 Prin of Economics-Micro (Assume Econ 201 taken in General Core) MM 300 Prin of Marketing 3 MM 337 Management Information Systems MM 350 Prin of Management 3 **Operations Management** MM 431 3 GB 320 3 **Business Comm**

Office Administration

GB 321	Business Statistics	3
GB 354	Total Quality Management 3	3
GB 405	Statistical Quality Control 3	3
		36
CADD at	nd CAM specialization-School	of
Technolo	gy	40
		127

Students should consult the Dean of the School of Technology at the earliest possible date in order to incorporate the correct sequence into the appropriate associate of science degree program.

Office Administration and Business Education

Faculty Compton, Culwell, Grim, Rusley

Secretarial training is available under both an associate of science degree and a one-year certificate. The A.S. office administration major course of study provides both secretarial skills and the necessary business skills for a graduate to manage an office. The one-year certificate of achievement prepares a recipient for entry-level office duties. Courses help business education majors meet B.S.E. graduation requirements and state requirements for certification.

Associate of Science in Office Administration

	Semester	Hours
Core Cur	riculum (page 35)	25-26
	lministration Major:	39
Acct 201	Prin of Accounting I	3
GB 301	Business Law I	3
GB 320	Business Comm	3
OA 200		3
OA 220	Shorthand III	3
OA 230	Administrative Secretarial	
	Procedures	3
OA 231	Machine Transcription/	
	Reprographics	3
OA 240	0	3
OA 250	Intro to Word Processing	3
	(May include prerequisite	
courses t	o OA 200 and OA 220 if	
needed.	Others must be selected	
	298 Seminar, MM 237	
Managerial Data Processing, MM 350		
Prin of Management, Acct 202 Prin of		
Accounti	ng II, Econ 201 Prin of	
Economics-Macro, Econ 202 Prin of		
Economics-Micro or GB 115 Business		
Math/Mid	crocomputers. Selections	

from psychology and computer	
science also are valid, with app	roval
from adviser.)	12
	64-65

One Year Certificate of Achievement in Secretarial Science

	Semester I	Hour
OA 120	Shorthand II	3
OA 102	Type/Format	3
GB 115	Business Math/	
	Microcomputers	3
Acct 201	Prin of Accounting I	3
CORE	[Eng 101 Comp I]	3
GB 320	Business Comm (Eng 101)	3
OA 200	Typ/Elec Doc Prod (OA 102	2)
		3
OA 220	Shorthand III	3
OA 231	Machine Transcription/	
	Reprographics	3
CORE	[Comm 100 Oral Comm]	3
		3

Suggested Orders of Study

Associate of Science Major Code 5005 Office Administration

Freshman Year

1st Semes	ter	
Course		Hours
CORE	[Psy 100 or Soc 110]	3
CORE	[Comm 100 Oral Comm]	3
CORE	[Eng 101 Comp I]	3
CORE	[Math 30 Intermediate Algeb	ra OR
	Math 110]	3
Psy 120	College Orientation	1 3
Business E	Elective	3
		16
2nd Seme	ester	
Acct 201	Prin of Acct I (Math 131)	3
OA 200	Typ/Elec Doc Prod	3
CORE	[Literature, Art 110, Mus 110	, Th
	110 or Phil 201]	3
CORE	[HPER 103 Lifetime Wellness]	
CORE	[Psc 120 or Hist 110 or 120]	3
Business E	lective	3
		17

Sophomo	re Year	
1st Semes	ster	
OA 231	Machine Transcription/	
	Reprographics	
GB 320	Business Comm	
GB 301	Business Law I	
Business I	Electives	
CORE	[HPER 101 Physical Activity]	

3 6

2nd Seme	ester	
OA 230	Administrative Secretarial	
	Procedures	3
OA 220	Shorthand III	3
OA 250	WP Concepts/Appl	3
CORE	[Physical Science 100 or Bio	o 100]
		4-5
OA 240	Records Management	3
	and the section of the base	16-17
[]Donoute	nent Decemmendation	

[]Department Recommendation ()Prerequisite

Business electives may include prerequisite courses to OA 200 and OA 220 if needed. Others should be selected from OA Seminars, Managerial Data Processing, principles of management, accounting, economics or business math. Psychology or computer science courses may be selected with approval of adviser.

Secretarial-Typist Certificate Major Code 5065 One-year Schedule

Course		Hours
CORE	[Comm 100 Oral Comm]	3
OA 102	Type/Format	3
OA 120	Shorthand II	3
CORE	[Eng 101 Comp I]	3
OA 231	Machine Transcription/	
	Reprographics	3
		15

2nd Seme	ster	
GB 115	Business Math/Microcomputers	3
OA 200	Typ/Elec Doc Prod	3
OA 220	Shorthand III	3
GB 320	Business Comm	3
Acct 201	Prin of Accounting I	3
		15

Bachelor of Science in Education (Business Major)

The B.S.E. business major course of study prepares graduates to teach business as either a single or dual field at the secondary level.

Bachelor of Science in Education with Business as a Single Teaching Field (Plan B)

	Seme	ster Hours			
Core Curi	Core Curriculum (page 35) 51				
Education	Education courses (page 118) 35				
Business /		48-49			
	Type/Format	3			
	Typ/Elec Doc Prod	3			
OA 120*	Shorthand II	3			
OA 220*	Shorthand III	3			
Acct 201	Prin of Accounting I	3			
Acct 202	Prin of Accounting II	3			

Courses/Accounting

	27.0
ng - Select one:	3-4
12 Intermediate Accounting	ng
	(4)
25 Managerial Accounting	
8	(3)
01 Tax Accounting	(3)
	ng
8	3
Prin of Economics-Macro	3
Prin of Economics-Micro	3
Business Comm	3
Business Law I	3
	ts/
	3
Prin of Business Educ	3
Prin of Marketing	3
	3
	13
having proficiency in type	oewrit
	Prin of Economics-Micro Business Comm Business Law I Word Processing Concep Appl

Students having proficiency in typew ing and shorthand may ask to be tested. If advanced standing is granted in the subjects, the student will substitute other courses in order to meet the 48 hour requirement.

Bachelor of Science in Education with Business as One of Two Teaching Fields (Plan A)

0,00	Semester	Ho	urs	
Core Curriculum (page 35) 51				
	courses (page 118)		35	
Business A		33-	34	
OA 102*	Type/Format	3		
OA 200*	Typ/Elec Doc Prod	3		
OA 120*	Shorthand II	3		
OA 220*	Shorthand III	3		
Acct 201	Prin of Accounting I	3		
Acct 202	Prin of Accounting II			
Acct 312	Intermediate Accounting	1 4		
OR				
Acct 325	Managerial Accounting	3		
OR	State of the same			
Acct 401	Tax Accounting	3		
Econ 201	Prin of Economics-Macro	3		
GB 320	Business Comm	3 3		
GB 301	Business Law I	_		
MM 237	Managerial Data Processi	ng		
		3		

*Students having proficiency in typewriting and shorthand may ask to be tested. If advanced standing is granted in the subjects, the student will substitute other courses to meet the 33 hours requirement.

Suggested Order of Study

Bachelor of Science Major Code 0838 Plan B-Single Teaching Field

Freshman	Year	
1st Semest	ter	
Course		Hours
CORE	[Eng 101 Comp I]	3
CORE	[Hist 110 U.S. History]	3
CORE	[Art 110, Mus 110 or Th 110]	3
CORE	[Psy 100 General Psychology]	
Educ 100	Orientation to Educ I	1
CORE	[HPER 103 Lifetime Wellness]	2
Psy 120	College Orientation	1
1		16
2nd Seme	ster	
CORE	[Eng 102 Comp II]	3
CORE	[PSc 120 Gov't: U.S., State, L	ocal]
CORE	[Hist 120 or 320]	3 3 3 2 3
CORE	[Math 131 Finite Math]	3
Psy 302	Exceptional Child	2
OA 102	Typ/Format (OA 101)	3
COLUMN TO SERVICE		17

Business Education

1st Semester CORE [Econ 201 Prin of Economics-Macro] Prin of Accounting I (Math 131) Acct 201 [Bio 101 General Biology] CORE

Sophomore Year

Junior Von

Educ 200 Orientation to Educ II [Literature (Eng 261, 262, 271, 272, **CORE** 281, 282)] CORE [HPER 101 Physical Activity] **Educational Psychology** Psy 310

Acct 202	Prin of Accounting II (Acct 201)	3
MM 237	Managerial Data Processing	3
CORE	[Gen Ed Phys 100]	
CORE	[Comm 100 Oral Comm]	3
Econ 202	Prin of Economics-Micro	3
		1

Juliloi ica		
1st Semes	ter	
Acct 312	Intermediate Accounting I or Acct 325 Managerial Accounting	10
	Acct 410 Tax Accounting (Acct 20	
GB 301	Business Law I	
Psy 301	Adolescent Psychology	:
Educ 329	Pedagogical Theory, Methods &	
	Practices	
Educ 321	Microteaching, Secondary	:

Educ 423	Classroom Management	2
		17
2nd Seme	ster	
CORE	[Humanities and Fine Arts]	3
OA 200	Typ/Elec Doc Prod (OA 102)	3
OA 120	Shorthand II (OA 111)	3
GB 320	Business Comm (Eng 102)	3
MM 300	Prin of Marketing (Econ 202)	3
Educ 422	Reading Secondary	2
	0	17

Senior Year

CORE	[International Cultural Studies] 3
OA 250	Intro to Word Processing (OA	102)
		3
OA 220	Shorthand III (OA 120)	3
GB 312	Prin of Business Ed	3
MM 350	Prin of Management	3
		15

2nd Semester

Professiona	l Semester	
Educ 462	Student Teaching Secondary	8
Educ 432	Critical Issues in Educ	2
Educ 402	Foundation of Educ	2
Educ 336	Teaching Business, Secondary	2
Psy 412	Measurement and Evaluation	2
		16

[]Department Recommendation ()Prerequisite

For additional information contact: Dean of School of Business Administration Office: Matthews Hall 302

Phone: 625-9319

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Students with proficiency in typewriting and shorthand may ask to be tested. If advanced standing is granted in the subjects, the student will substitute other courses in order to meet the 48 hours requirement.

School of Business Course Descriptions

Accounting(Acct)

Principles of Accounting I (F, S) 06.0201-201 3 hrs. cr. Fundamental principles of accounting as applied to modern business practice. Study of the complete accounting cycle and analysis of balance sheets and income statements. Emphasis on a single owner business. Prerequisite or corequisite: Math 131.

Principles of Accounting II (F, S)

06.0201-202 3 hrs. cr. A continuation of Accounting 201 with an emphasis on corporations and partnerships and cost/managerial accounting principles. Prerequisite: Acct 201.

Cost Accounting (F, S)

06.0201-310	3 hrs. cr.
Study of accounting cost systems prov	iding in-
formation generation for managerial plan	ning and
control. Special emphasis on product	and pro-
cess cost systems as applied to industr	ial enter-
prises. Prerequisites: Acct 202, MM 23	7.

Intermediate Accounting I (F, S)

06.0201-312	4 hrs. cr.
First of two courses that comp	rehensively cover
financial accounting for business	s enterprises (with
emphasis on the corporation). The course is
organized in three areas: (1)	environment of

Courses/General Business

financial accounting and basic theory underlying financial accounting; (2) accounting process from transaction analysis to financial statements; (3) accounting for assets. Prerequisite: Acct 202, MM 237.

Intermediate Accounting II (F, S)

06.0201-322 4 hrs. cr. Second of two courses that comprehensively cover financial accounting for business enterprises (with emphasis on the corporation). Organized in four areas: (1) accounting for liabilities and long-term investments; (2) shareholders' equity and earnings per share; (3) pensions, leases and income taxes; (4) financial statement reporting and analysis. Prerequisite: Acct 312.

Managerial Accounting

06.0201-325

3 hrs. cr. Accounting as a tool for the process of planning, controlling and decision making. Emphasis on where accounting data is obtained, what kind of information is needed and how it is used in the management process. This course may not be taken by the accounting major to satisfy accounting core requirements. Prerequisite: Acct 202.

Tax Accounting I (F, S)

06.0201-375

3 hrs. cr.
Procedures for reporting federal income taxes
with emphasis on income and deductions for
individuals. Practice in preparing federal income
tax returns. Prerequisite: Acct 202 or permission.

Advanced Accounting (F, S)

06.0201-402 3 hrs. cr. Application of accounting principles of partnerships, branch accounting, business combinations, consolidated statements, segment reporting, reporting by multinational companies, bankruptcy and corporate reorganization, estates and trusts. Prerequisite: Acct 322.

Tax Accounting II (F)

06.0201-408 3 hrs. cr. Procedures for reporting federal income taxes with emphasis on corporations, partnerships, estates and trusts. Practice in preparing federal income tax returns of these business entities. Prerequisite: Acct 375.

Auditing (F, S)

06.0201-411 3 hrs. cr. Overview of the certified public accounting profession with special attention to auditing standards, professional ethics, the legal liability inherent in the attest function, the study and evaluation of internal control, the nature of evidence, the growing use of statistical sampling, the impact of electronic data processing and performing an audit. Prerequisite: Acct 322.

CPA Problems (Demand)

06.0201-412 3 hrs. cr.
Preparation for the Uniform Certified Public
Accountant Examination. Includes methods of
studying for the examination, lectures and problem solving exercises and a review of appropri-

ate theoretical and technical pronouncements. Prerequisite: 21 hours of accounting including Acct 411 (Auditing) or senior standing AND permission of instructor.

Accounting Theory (Demand)

06.0201-420 3 hrs. cr. Study of the theory of income, asset valuation and history of accounting thought. Critical discussion of the authoritative pronouncements of the Financial Accounting Standards Board. Provides a coherent set of logical principles that form the general frame of reference for the evaluation and development of sound accounting principles. Helps prepare students for the theory portion of the CPA examination. Prerequisite: Acct 322.

Governmental and Non-profit Accounting (F) 06.0201-421

Study of accounting principles, standards and procedures that apply to governmental entities. Primary emphasis is accounting for municipalities. Provides background for studying accounting systems of college and universities, hospitals and other non-profit entities. Prerequisite: Acct 322.

Internship in Public Accounting (Demand)

06.0201-491

1-8 hrs. cr. Selected senior accounting students serve an internship of approximately 60 work hours per credit hour earned as junior accountants on the staff of practicing certified public accountants and/or private industry. Supervised by faculty. Oral and written reports required. Prerequisites: Acct 322, 401, 411 and/or consent of the internship committee. (Not more than 3 hrs. per semester.)

Seminar in Accounting (Demand)

06.0201-498

1-3 hrs. cr.
For upper division accounting or related majors with topics to be announced each time the course is offered. Prerequisite: Senior standing or permission. Seminars offered in the past include Advanced Auditing and Advanced Cost.

Independent Study in Accounting (Demand) 06.0201-499 1-3 hrs. cr.

Individually directed readings, research and discussion in selected areas of accounting for advanced majors. Scope, depth, area of concentration and credit to be arranged upon entry into course. Offered by arrangement. Prerequisite: Permission and a minimum 3.0 GPA.

General Business (GB)

Introduction to Business (F, S)

06.0101-101 3 hrs. cr. Modern American business, including a study of the capitalistic system, ownership and organization, management problems, marketing, finance, law and taxation. Not available for credit for those with more than 6 hrs. of business.

Business Mathematics/Microcomputers (F, S)

Fundamental processes of mathematics as applied to business. Includes common and decimal fractions, percentages, markup, interest, bank discount, compound interest, annuities, insurance, payrolls, taxes and financial statements. Recommended for associate degree students only. Prerequisite: Permission of instructor.

Business Law I (F, S)

06.0101-301 3 hrs. cr. Common law principles and statutes, particularly the Uniform Commercial Code, as they relate to American business. Includes the court systems and procedures, contracts, personal property and bailments, sales and commercial paper. Special emphasis on Missouri case-law and statutes. Lectures supported by actual case decisions and case digests. Prerequisite: Junior standing.

Business Law II (F, S)

06.0101-302

Common law principles and statutes, particularly the Uniform Commercial Code, as they relate to American business. Brief overview of criminal law and tort law, government control and regulation, secured transactions, insurance, bankruptcy, agency and employment, partnerships, corporations, real property and estates. Prerequisites: Junior standing.

Principles of Business Education (F)

06.0101-312 3 hrs. cr. Fundamentals of business education including curriculum, trends, equipment, materials, professional organizations and vocational programs.

International Business

06.0101-310 3 hrs. cr. Introduction to the complexities of international trade. Focus on cultural differences, theories of international trade and practical applications of starting and maintaining international business relationships. Prerequisites: Econ 180 or 201.

Business Communication (F, S)

06.0101-320 3 hrs. cr. Communication through sound written and oral business messages. Includes principles, functions, techniques and format of writing effective letters, memos and reports with emphasis on the application process. Prerequisites: 6 hrs. English Composition or permission of instructor.

Business Statistics I (F, S)

06.1301-321 3 hrs. cr. Methods of collection, analysis, interpretation and presentation of data related to business. Topics include frequency distribution, measures of central tendencies and dispersion, regression and correlation analysis, probability concepts, sampling distributions, estimation procedures and hypothesis testing. Computer statistical packages will be utilized in analysis and application of problems. Prerequisite: Math 130 or 131 or higher, GB 237.

Courses/Economics & Finance

Business Statistics II (S)

06.1301-322 3 hrs. cr. Methods of statistical analysis relating to business decision making and research in business and economics. Emphasizes sampling theory, parametric test of hypothesis, analysis of variance, non-parametric test of hypothesis, statistical quality control and other selected statistical techniques. Computer statistical packages will be utilized in analysis and application of problems. Prerequisite: GB 321.

Total Quality Management (Demand)

06.0101-354

3 hrs. cr.
Total Quality Management (TQM) is an overview of an evolving philosophy for continuous improvement of products, processes and services to enhance quality while reducing costs. It is a management/technical/cultural approach to the integration of all systems and processes of an enterprise to achieve "customer" satisfaction. Prerequisite: MM 350 or consent of instructor.

Statistical Quality Control (Demand)

06.1401-405

3 hrs. cr. Impact of foreign competition on American industry and need for quality productivity and management improvement. Attention to the Deming management principles and statistical and quantitative methods used by major industries. Prerequisites: GB 321 or consent of instructor.

Seminar in General Business (Demand)

06.0101-498

1-3 hrs. cr. For upper division general business or related majors with topics to be announced each time the course is offered. Prerequisite: Senior standing or permission. Seminar topics offered in the past incude office machines, career orientation and human relations.

Independent Study in General Business (Demand) 06.0101-499 1-3 hrs. cr. Individually directed readings, research and discussions in selected areas of general business for advanced majors. Scope, depth, area of contration and credit to be arranged upon entry into course. Offered by arrangement. Prerequisites: Permission and 3.0 GPA.

Economics and Finance (Econ)

The American Economic System (F, S)

06.0501-180

A core course on the goals, organization and operation of the U.S. market economy. Topics include: scarcity and choice; the operation of the pricing mechanism and the role of competition, profits, savings and investment in the allocation of resources; the economic functions of government; limitations of the market system; market versus command economies; and the industrial organization of our contemporary capitalistic economy with emphasis on the activities of the business firm. Not for business

majors or for those who have taken Econ 201 or 202.

Principles of Economics (Macro) (F, S)

06.0501-201

3 hrs. cr. Economic principles that apply to the economy as a whole, such as: total income, output, employment, general price level, economic growth, international trade, monetary and fiscal policies and current economic problems. Prerequisite: Sophomore standing or permission, Math 130 or above.

Principles of Economics (Micro) (F, S)

06.0501-202 3 hrs. cr. Fundamental institutions of the American economy, the theory of price determination and the theory of income distribution. Prerequisite: Sophomore standing or permission, Math 130 or above.

Money and Banking (F, S)

06.0501-300

3 hrs. cr.
The nature, need constituents, functions, role, creation and destruction of money and credit; financial institutions and their functions with special emphasis on the commercial banking system and the Federal Reserve system; introduction to monetary theory and policy; international aspects of money and monetary policy. Prerequisites: Econ 201 and 202.

Economic Growth and Development (Demand)

06.0501-302

3 hrs. cr. The meaning of economic growth and development, the problems associated with measurement and comparisons of economic growth between more developed and less developed countries, the study of changes that take place in the course of growth, the factors that contribute or hinder growth, economic growth theories and models, policy considerations and the international aspects of economic growth. Prerequisites: Econ 201 and 202.

Economic Resources (Demand)

06.0501-312

3 hrs. cr. Allocation of resources in order to satisfy human wants and desires through the use of economic principles and concepts. Both micro and macro principles used as well as functional concepts of resources, trends in resource development and utilization and an appraisal of resource potentials. Prerequisites: Econ 201 and 202.

Business Statistics II 06.1301-322

(See Gen. Bus. 06.1301-322 Bus. Statistics II.)

Principles of Insurance (Demand)

06.0801-330 3 hrs. cr. Survey of the fundamentals of insurance including risk management, interpretation of policies, property insurance, liability insurance, health insurance and life insurance. Prerequisite: Econ 201 and 202.

Financial Management (F, S)

06.0501-350 3 hrs. cr. Study of the financial operating environment

and financial analyses; risk and valuation, time value of money, capital budgeting, cost of capital and leverage, working capital management and dividend policy. Prerequisites: Econ 201 and 202, Acct 202, MM 237.

Microeconomic Analysis (F)

06.0501-401 3 hrs. cr. Study of the price system and resource allocation through a system of markets and prices, the conditions for an efficient economic system, the determination of product and input prices under various types of markets. Marginal productivity and income distribution and optimum welfare. Prerequisites: Econ 201 and 202.

Macroeconomic Analysis (S)

06.0501-402

3 hrs. cr. Fundamental concepts and theories of the aggregate economic variables, an aggregate economic model of the economy including goods market, money market, labor market and foreign market; their interrelation and interaction. Comparative static and dynamic analysis. The economic growth in a dynamic setting, inflation and income distribution. Prerequisite: Econ 300.

Investments (F)

06.1001-411 3 hrs. cr. Principles underlying investment analysis and policy; salient characteristics of governmental and corporate securities; policies of companies and investing institutions; relations of investment policy to money markets and business fluctuations; security price-making forces. Prerequisite: Econ 350.

Urban and Regional Economics (Demand)

106.0501-412
11. Troduction to the application of economic principles in the study of urban and regional economic environment. Analysis of spatial price theory, transportation costs, the law of markets, location theory and the spatial distribution of activities, economic base theory input-output technique, central place theory, land use, regional growth, migration, regional policy objectives and current urban problems. Prerequisites: Econ 201 and 202.

Financial Institutions

06.0501-415

A broad introduction to the operation, mechanics and structure of the financial system of the U.S. Emphasis on the major institutions, including the Federal Reserve System, commercial banks and savings institutions and on the primary markets (money and capital) that make up the system of intermediation of savings into investment.

Seminar in Economics & Finance (Demand)

06.0501-498 1-3 hr. cr.

Seminar for upper division majors with topics to be announced each time the course is offered. Prerequisite: Senior standing or permission. Examples of seminars offered in the past are: 498-Seminar in International Economics

Courses/Marketing & Management

498-Seminar in Business Cycles 498-Seminar in Public Finance

Independent Study in Economics-Finance (Demand)

06.0501-499
1-3 hrs. cr. Individually directed readings, research and discussions in selected areas of economics and finance for advanced majors. Scope, depth, area of concentration and credit to be arranged upon entry into course. Offered by arrangement. Prerequisites: Permission and 3.0 GPA.

Marketing and Management (MM)

Managerial Data Processing (F, S)

06.1201-237

3 hrs. cr. Application of automatic information processing to business, the media for recording, processing and controlling of business information by the automatic process and the formats and flow of data through electronic computers with simulated problems applicable to areas of accounting, management and marketing. Credit may not be allowed for both MM 237 and CIS 305. Formerly GB 237.

Principles of Marketing (F, S)

06.1401-300 3 hrs. cr. Survey of major marketing methods, institutions and practices. Retailing, wholesaling, distribution channels, marketing legislation, advertising, marketing research and marketing cost are treated from the standpoint of consumers, middlemen and manufacturers. Prerequisite: Econ 202.

Retailing (F, S)

06.1401-312 3 hrs. cr. Principles of successful retail management; analytical and research methods applicable to problems of retail management. Prerequisite: MM 300.

Salesmanship (F)

06.1401-321 3 hrs. cr. Principles and methods of effective personal and industrial selling. Stresses practical aspects through actual sales presentation by the students who are videotaped and critiqued according to basic selling principles. Prerequisite: MM 300.

Management Information Systems

06.1201-337
3 hrs. cr. Familiarizes business students with management information systems, including proper selection of software and hardwarecomponents. Prerequisite: MM 237 or CIS 115 and 120. Formerly GB 237.

Principles of Management (F, S)

06.0401-350

3 hrs. cr.
Survey of the current state of the art and science of management, including the role of managers and how through the coordination of the managerial functions (planning, organizing, leading, contributing, etc.) organizational and individual goals may be achieved.

Human Resource Management (F, S)

06.0401-352 3 hrs. cr. Principles and practices of management with emphasis on the human factors, including procurement, development and maintenance of an effective work force. Prerequisite: MM 350 or consent of instructor.

Promotional Strategy (S)

06.1401-401 3 hrs. cr. Description of fundamental advertising and promotional principles and their application in mass marketing. Analysis of advertising media, the preparation of advertising and formulation of campaigns. Prerequisite: MM 300.

Small Business Management Practicum (F, S)

06.1801-410

3 hrs. cr. A practical course in solving real problems in an actual business environment. Students provide counseling to small business firms through cases referred by the Small Business Administration. Course may be repeated for a total of six hours of credit. Prerequisite: Second semester junior or senior standing in business administration and permission of instructor. Application for admission to the course is required. Formerly GB 410.

Labor Law (Demand)

06.0101-411 3 hrs. cr. Significant legislation and the accompanying case decisions which have a major impact on labor/management relations. Primary emphasis on the Labor-Management Relations Act, as amended, with special attention to establishment of the bargaining unit and unfair labor practices of both labor and management. Secondary emphasis on Fair Employment practices. Prerequisite: Junior standing. Formerly GB 411.

Marketing Management (F)

06.1501-412 3 hrs. cr. Managerial aspects of marketing: problems involved in goal setting, planning and strategies as they apply to product policy, pricing objectives, promotional objectives, distribution policy and marketing intelligence. Prerequisites: MM 300 and MM 350.

Operations Management (F)

06.0401-431

3 hrs. cr. Principles and decision analysis related to the effective utilization of the factors of production and operations in manufacturing activities for both intermittent and continuous systems. The study of operations management, analytical models and methods, facilities design and the use of computer modeling for control systems for effective production operations. Prerequisite: GB 321, Business Statistics I.

Consumer Behavior (Demand)

06.1499-432

An interdisciplinary approach to the analysis and interpretation of consumer buying habits and motives and the resultant purchase of goods and services. The purchaser's psychological,

economic and socio-cultural actions and reactions are stressed. Prerequisite: MM 300.

Organizational Behavior (F, S)

06.1501-441 3 hrs. cr. Study of people in organizations to provide an opportunity for more self awareness. Focuses on organizational effectiveness as well as satisfaction of individual needs. Students are offered the opportunity to develop more fully their ability to analyze and act on human behavior problems they will face in the future. Prerequisite: MM 350.

The Psychology of Human Resource Management (Demand)

06.0401-450 3 hrs. cr. Traditional areas of human resource management/organizational psychology are addressed, including group interaction, communication, attitudes, interviewing, compensation and benefits and legal environment. An interdisciplinary approach will be taken. The contents will be presented using both theory and experimental methods.

Business Policy (F, S)

06.0401-452 3 hrs. cr. An integrating capstone course cutting across all fields of business administration. Cases pertaining to top management decision making are used. Prerequisites: MM 300, MM 350, Econ. 350. This course must be taken during the last year of college work.

Marketing Research (S)

06.0401-470 3 hrs. cr. The systematic gathering, recording, analyzing and presentation of data relating to market analysis, sales analysis, consumer research, advertising research and attitude research. Prerequisites: GB 321 and six hours of marketing.

Internship in Marketing/Management (F, S)

An internship for senior marketing/management students with an opportunity to observe and participate in actual business operations within the community. All internships must conform to institutional policy regarding the number of hours of work, the number of credit hours and written agreements with the cooperating business or agency. Prerequisites: Senior standing and department approval.

Seminar in Marketing & Management (Demand) 06.1401-498 1-3 hrs. cr. Seminar for upper division marketing and management or related majors with topics to be announced each time the course is offered. Prerequisite: Senior standing or permission.

Independent Study in Marketing and Management (Demand)

06.1401-499
1-3 hrs. cr. Individually directed readings, research and discussions in selected areas of marketing and management for advanced majors. Scope, depth, area of concentration and credit to be arranged

Courses/Office Administration

upon entry into course. Offered by arrangement. Prerequisites: GPA of 3.0 in major field and permission.

Office Administration and Business Education (OA)

Typewriting/Keyboarding (F, S)
07.0601-101
3 hrs. cr.
Emphasis on learning to manipulate the keyboard efficiently, stressing the development of both speed and accuracy so the student will acquire a personally useful skill. A few simple letter styles are taught as well as manuscript style and basic tabulation. No credit given to students with one year of high school typewriting.

Typewriting/Formatting (F, S)

07.0601-102 3 hrs. cr. A business communications typing course. Covers all styles of business letters, technical and statistical reports, tables and employment communications. Prerequisite: OA 101 or a good knowledge of the keyboard.

Shorthand I (S)

07.0601-111 3 hrs. cr. A theory course in which the principles of shorthand are studied. Vocabulary building is stressed. Not open to students who have completed one year of shorthand in high school. Prerequisite: Typewriting 101 or equivalent.

Business Mathematics/Microcomputers (F, \$)

06.0101-115 3 hrs. cr. Fundamental processes of mathematics as applied to business. Includes common and decimal fractions, percentages, markup, interest, bank discount, compound interest, annuities, insurance, payrolls, taxes and financial statements. Recommended for associate degree students. Introduction to spread sheets using Super Calc 3.

Shorthand II (F)

07.0601-120 3 hrs. cr. A dictation course including a review of theory and special attention to the development of efficient transcription procedures. Dictation ranges from 60 to 110 words per minute. The minimum speed requirement by the end of the semester is 80 words per minute with 95 percent accuracy. Prerequisite: OA 111 or any course in which the theory has been completed.

Typewriting/Electronic Document Production (S) 07.0601-200 3 hrs. cr. Production of all types of letters, reports, business forms, tables and legal forms based on realistic office job simulations. Prerequisite: OA 102 or equivalent.

Shorthand III (S)

07.0601-220

3 hrs. cr.
The application of shorthand theory, grammar, punctuation and capitalization rules and spelling to the transcription of business letters and memoranda. Emphasis on accuracy and rate of transcription and the ability to produce mailable office correspondence. Prerequisite: OA 120 or equivalent or OA 102 or equivalent.

Administrative Secretarial Procedures (S)

07.0601-230 3 hrs. cr. Secretarial duties performed and the conditions under which the secretary functions. Practice in decision making and the application of secre-

tarial skills through simulated office situations. Offered for sophomores in the office administration curriculum. Prerequisite: OA 120, recommended -- GB 320 or permission.

Machine Transcription/Reprographics (F)

07.0601-231 3 hrs. cr. Students will be introduced to and expected to develop a knowledge of and efficient operable skill in offset, stencil and fluid duplicating machines, other copying machines, transcribing machines and word processing equipment. Offered for students in the office administration curriculum. Prerequisite: OA 102.

Records Management (S)

07.0601-240

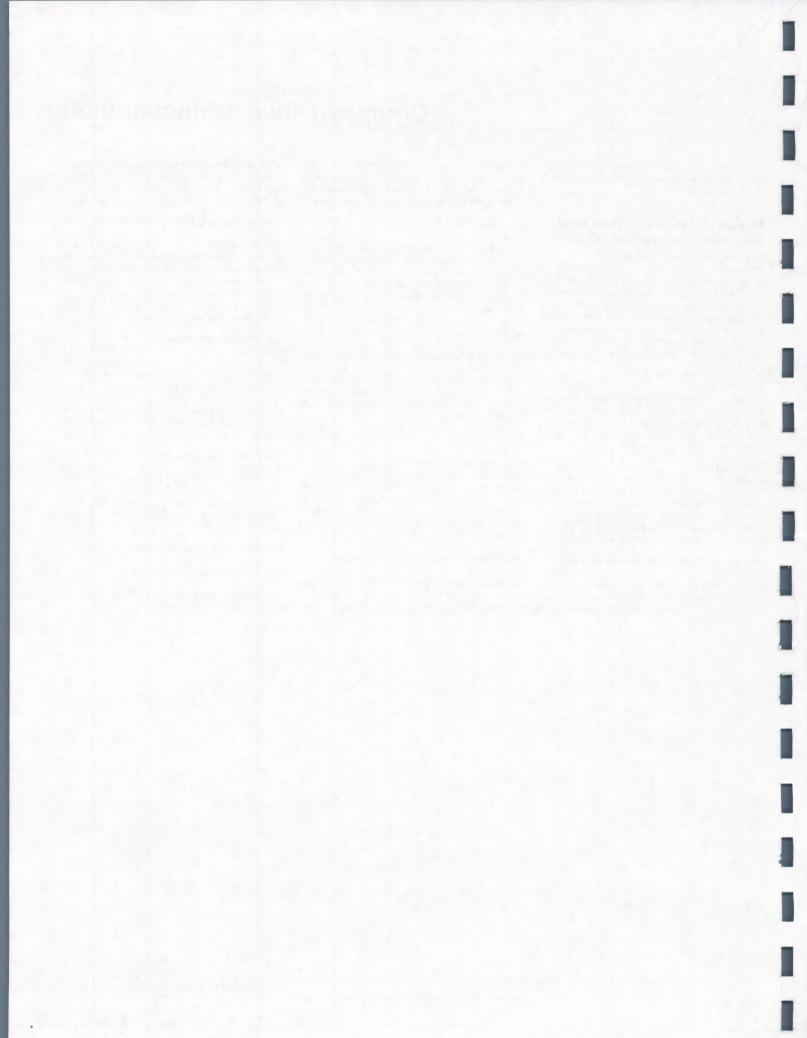
3 hrs. cr. Intensive exposure to the knowledge and skills needed in modern day records management and their application to various types of businesses. Includes a study of the creation, classification, retention and disposal of records with emphasis on the control aspect. Offered for students in the office administration curriculum.

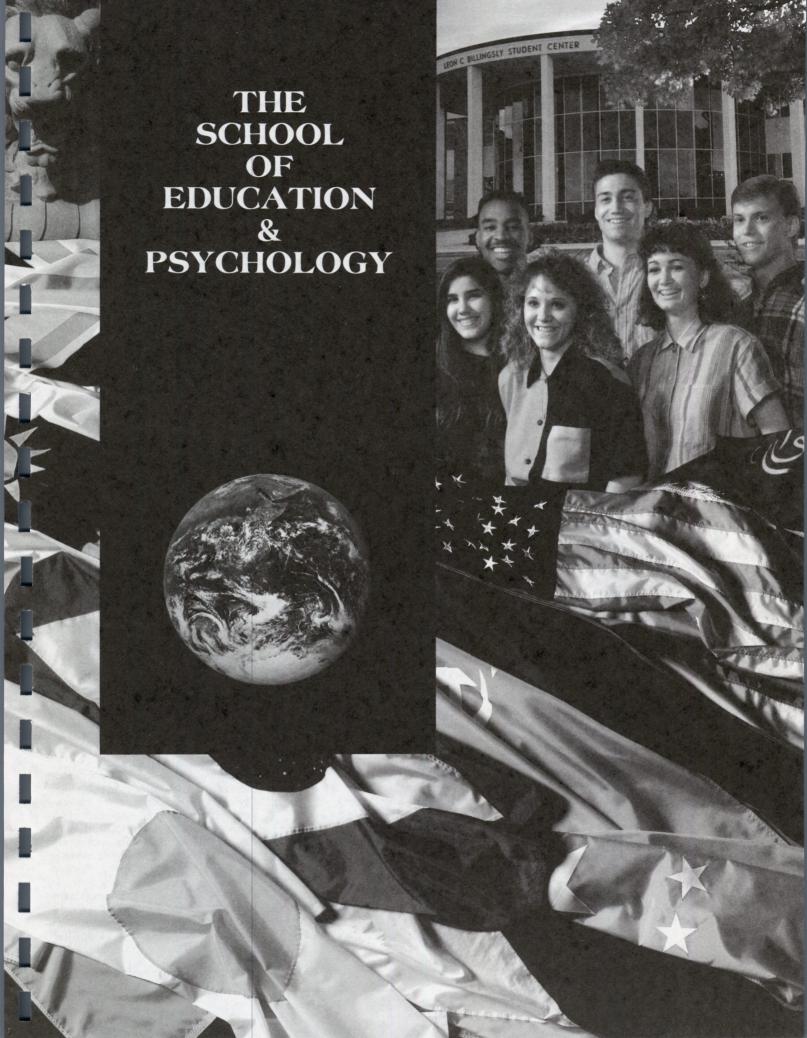
Word Processing Concepts/Applications (F, S) 07.0601-250 3 hrs. cr. Introduction to the total concept of word processing as it relates to administrative services and machine technology in the modern business organization. Prerequisite: OA 102 Type-writing

Principles of Business Education (F) 06.0101-312

(See General Business 06.0101-312)

Teaching Business in Secondary Schools (S) (See Education 13.1303-336)





School of Education and Psychology

School Dean

Edward P. Merryman Taylor Hall 220, 625-9314

Degrees and Majors

Bachelor of Arts
Psychology
Bachelor of Science
Psychology
Bachelor of Science in Education
Elementary Education
Secondary Education
Physical Education
Psychology-Special Education

Role

The School of Education and Psychology shares in the mission of Missouri Southern by providing the professional education for preservice elementary and secondary teachers, and by preparing students in professional education and psychology for graduate education. The School of Education and Psychology serves the institution by providing support courses in physical education and psychology to the Core Curriculum.

The programs in the School of Education and Psychology are service-oriented and attract students who wish to make their contribution to society through teaching, research and humanitarian services. Because of the critical nature of the contributions these students make to society, those who are academically talented are encouraged to participate in the program.

A unique characteristic of the basic teacher preparation program is the shared responsibility for training preservice elementary and secondary teachers with academic units outside of the School of Education and Psychology. Eighty percent of the course work in secondary education and 70 percent of the course work in elementary education is done in academic units outside the professional education unit. The Secondary Education Committee coordinates the work done by secondary education students in academic units in the School of Arts and Sciences and the School of Business Administration. All academic units have representatives on this committee. The ultimate responsibility for all teacher education programs rests with the Education Department, which is the governing unit for the basic teacher preparation program.

Scope

The School of Education and Psychology

contributes to the mission of the College through teaching, community service and research.

The faculty in the School of Education and Psychology are dedicated to providing students with exemplary teaching. Since the faculty serve as professional role models for their students, they are aware of current pedagogical practices that have been developed from research and learning theory and they use this knowledge to develop teaching methods, techniques and procedures to create a maximal learning environment. Faculty provide services to the community by participating in civic organizations as leaders, members and consultants. All of the faculty work with the area schools through in-service programs, programs that have been developed for children and as consultants.

The faculty contribute to the advancement of knowledge in their respective fields through research and writing. Research that has been done in area schools has contributed to the improvement of the quality of teaching.

Teacher Education

The teacher education program is based on a decision making model which defines the role of the teacher as decision maker. In this role, the teacher must make decisions about pedagogical design and lesson design. Decisions concerning pedagogical design include those regarding classroom management, curriculum development, field experiences, technology and program evaluation. Decisions about lesson design include communications, use of science, technology and the arts, problem solving, value clarification, intellectual domains and social institutions. An extension of the role of the teacher as a decision maker includes the teacher as a change agent, learner, provider of services and researcher.

Central to the conceptualization of the role of the teacher is the knowledge base. The knowledge base is composed of knowledge, skills, techniques, concepts, constructs, etc., that have been gathered from research, reported effective practices and learned societies in such areas as school effectiveness, principles of effective instruction, human growth and development, learning theory, assessment, cultural diversity and special needs, curriculum content, and psychological, sociological, historical and philosophical foundations.

In order to be an effective decision maker, the teacher must possess certain knowledges, cognitive abilities and pedagogical skills. The objectives below were developed to assure the teacher education program provides these knowledges and skills:

- to provide a working knowledge and competency in the philosophical, sociological and psychological foundations of education. This knowledge is used as a basis for decision making, instructional design and educational planning.
- to guide in the effective application of learning theory. This application shall include the learning environment, learner attributes and learning tasks.
- to provide cognitive, affective and psychomotor learning in communication, problem solving, value clarification, social institutions, science and technology and the arts.
- to develop an understanding of how the human grows and develops. This understanding includes the theoretical basis for development and how this relates to teaching and learing.
- to create an awareness of the cultural diversity that exists in our society and to provide knowledge relative to the contribution made by the various cultures to the American culture.
- to develop teaching expertise in the teaching specialty which shall include both breadth and depth in subject matter as well as the methods, techniques and skills for teaching this subject matter.
- 7. to teach the knowledge and skills needed to develop instructional plans, strategies and assessments basic to meeting individual needs of students that may be evident in cultural diversity, values clarification and mental and physical exceptionalities.
- 8. to achieve knowledge for the effective use of various classroom management systems such as counseling, congruent communication, assertive discipline, reality therapy, etc. To develop the belief that there is a strong relationship between classroom management practices and teaching effectiveness.
- to make available experiences in learning to utilize and apply technology in education, such as microcomputers, VHS and film media. To develop effective use of the new technology as de-

Teacher Education

livery systems for instructional purposes.

- 10. to provide the knowledge and skills necessary to organize and manage an effective school environment. These will help in the management of instructional experiences, the instructional materials and all other physical properties related to learning.
- 11. to develop competency in the assessment of developmental and behavioral problems. The assessment competencies shall include instrumentation, administration and interpretation. Interpretative skills shall include the use of assessments in educational planning.
- 12. to provide the knowledge and skills required for reporting to, and working with, parents and parental support. The reporting to parents shall involve accurate and effective communication, both in writing and orally, concerning the needs and progress of students. In addition, to provide the knowledge and skills required to make referrals to community support systems and services for students needing intervention beyond the regular classroom instruction.
- 13. to provide practical experiences that accurately reflect those that occur in typical classroom settings. These experiences will provide opportunities to interact with the learner in the learning environment. The learning environment will be rich in opportunities to observe practices, methods and techniques as they are applied to learning and the learner.
- 14. to develop plans for continuous professional growth and development which includes self evaluation, performance based teacher evaluation and other forms of peer evaluation. Opportunities and experiences for the personal development of high ethical standards will be provided.

Bachelor of Science in Education (B.S.E.)

Students majoring in elementary education, elementary education/special education, physical education, psychology/special education and secondary education and who successfully complete the requirements for this degree will be recommended for the Professional Certificate-I teaching certification. This is a probationary certificate that is granted for two years. Addition-

al certification is granted by the Missouri Department of Elementary and Secondary Education. Recipients of other degrees who wish to be certified in the State of Missouri must meet all of the requirements that are set forth in this catalog for the B.S.E. degree. All of the teacher education programs have been approved by the Missouri State Department of Elementary and Secondary Education and by the National Council for Accreditation of Teacher Education. All programs are designed to exceed minimal requirements for certification.

Admission to the Teacher Education Program

Applications for admission to the teacher education program may be filed with the Dean of the School of Education when the student has successfully completed 55 semester hours of prescribed course work. The deadline for application is the second week in March for those seeking admission in the subsequent fall semester. The deadline for application for those seeking admission in the spring semester is the second week in November.

Students must be tentatively admitted before courses can be taken in professional education. These courses are identified by the Educ prefix numbers as 300 or above. Qualifications for tentative admission include the following:

- Submit a completed application that is signed by the student's adviser. The adviser's signature indicates that the student's adviser and the adviser's department are recommending the student for admission.
- 2. A cumulative GPA of 2.75 in all course work. All students in education must maintain a cumulative GPA of 2.5 in their teaching areas, e.g., art, mathematics, elementary education, etc.
- Pass all sections of the Missouri C-Base Test. (This test is not required of post baccalaureates.)
- 4. Have a composite ACT enhanced score of 20 or a SAT(VM) of 800.
- Submit a hand-written autobiography in correct and coherent standard English. The autobiography must be read and approved by the student's adviser.
- 6. Submit a passing evaluation in speech from the communications department.

Students who are tentatively admitted to the teacher education program will receive notification from the Dean. Students who fail to gain tentative admission will also be notified by the Dean. Reasons for failure to gain admission will be stated, along with suggested corrective measures should the student wish to continue pursuing admission.

Full admission is granted when the student successfully completes Educ 329, Pedagogical Theory, Methods and Practices, Educ 321 Micro Teaching and Educ 423 Classroom Management. The student must be recommended by the instructors of these courses. The student must maintain a cumulative GPA of 2.75. If at any point in the program a student's GPA drops below accepted levels, the student will be dropped from the teacher education program.

Grades below a "C" in professional education courses will not be accepted for the degree requirements in teacher education. Students seeking certification in elementary education, special education and early childhood education must have a grade of "C" or better in each of the courses in these certification areas.

Students qualifing for full admission to the program will be notified in writing by the Dean. The date of admission will be entered on the student's record by the Registrar. Unsuccessful students will also be notified and corrective measures suggested.

Applications for admission must be completed and on file in the office of the Dean of the School of Education and Psychology by Friday of the first week in November for the first semester and by Friday of the first week in March for the second semester.

Admission to Student Teaching

Between the course on Pedagogical Theory, Methods and Practices (Educ 329) and the professional semester, the student takes approximately 26 or more hours of work in professional education and in a teaching specialty. During this time the student must maintain a cumulative GPA of 2.75 or better and a GPA of 2.5 or better in the teaching specialty. The student must make a "C" or better in all professional education courses. The students must retake courses in which a grade lower than "C" is received. The student is expected to maintain those personal and professional requirements that were met as part of the admission requirements to teacher education. The requirements that must be met prior to admission to student teaching are:

1. Be fully admitted to the teacher education program.

Certification

- 2. Have a cumulative GPA of 2.75.
- 3. Have a cumulative GPA of 2.5 in teaching specialty area.
- 4. Have all previous course work completed at the time of student teaching.
- 5. Have a completed application for student teaching on file.
- 6. Have a grade of "C" or better in each professional education course.
- Have an approved typewritten autobiography on file. The autobiography must consist of two or more paragraphs.

The student teaching program is intended for students who have met all of the reguirements for student teaching at Missouri Southern State College. Students from other institutions who have, with the exception of student teaching, completed the teacher education program at those institutions and who were awarded baccalaureate degrees, must complete the equivalent of the professional semester at Missouri Southern. They must be in good standing at their previous institution. The Dean of the School of Education and Psychology will develop a course plan for those who wish to complete Missouri certification reguirements by taking student teaching at Missouri Southern.

Graduation Requirements

In order to graduate from the Teacher Education Program, the student must successfully complete the following exit requirements, in addition to all other academic requirements of the College:

- Submit 10 examples of the student's best work in the teacher education program.
- 2. Pass all minimal competencies required of teacher education students.
- Pass the Professional Skills Test of the National Teachers Exam.
 Pass the Teaching Specialty Exam of
- Pass the Teaching Specialty Exam of the National Teachers Examination.
- Successfully complete student teaching.
- 6. Have a cumulative GPA of 2.75 or higher.
- 7. Have a cumulative GPA of 2.5 or higher in the teaching specialty area.
- 8. Have a successful exit interview.

Advisement

Freshmen with declared majors in teacher education will have an adviser assigned as part of Educ 100, Orientation to Education I. Sophomores declaring a major in teacher education will be assigned advisers in Educ

200 Orientation to Education II. It is strongly recommended that all education majors have advisers in their teaching specialty area. This is because of the many specific course requirements and entrance and exit requirements for teacher education.

Post-graduates not holding a Missouri oteaching certificate and seeking Missouri certification must be advised in the specialty department of their intended teaching area. These students must meet all departmental requirements for certification.

Post-graduates holding Missouri certificates must have the Missouri State Department of Elementary and Secondary Education (DESE) evaluate their transcripts and make recommendations for course work that will lead to certification. After a plan sheet is received by the student, the requirements specified by DESE may be translated into MSSC courses by the Assistant Certification Officer in the Office of the Dean.

Special Education Certification Special education is an endorsement certification program (also called an area of concentration). This certificate is endorsed to the elementary education certificate. Missouri Southern has special education endorsement certification programs leading to certification in behavior disorders (BD), learning disabilities (LD) and mentally handicapped (MH). Information on these three programs can be obtained from the education department head and/or the Dean.

As part of the requirements for endorsement programs in BD, LD or MH, the student must have a 10 week student teaching experience in the endorsed certification area. Five weeks of the student teaching experience is in the elementary schools and five weeks is in the secondary schools. All students seeking special education certification must take Educ 324, Intro to Special Education, the methods course for the area in which they are specializing (Educ 403, 404 and/or 405), and a practicum course in the area in which they seek certification. These courses may not be taken concurrently, but must be taken in sequence. Further information on these programs is available in the education department of-

Remedial Reading Certification

Students taking the prescribed courses for remedial reading certification may be certified in remedial reading upon the successful completion of two years of teaching

experience. Students who pursue this endorsement certification (area of concentration) may apply directly to the DESE for that certification. Program plans for remedial reading endorsement certification are available in the education department office.

Early Childhood Certification

Elementary education majors wishing to certify in early childhood education, grades Pre-K-3, may do so in conjunction with their course work in elementary education by taking the following courses:

- Educ 316 Foundations, Issues and Trends in Early Childhood Education
- Educ 317 Curriculum in Early Childhood Education
- Educ 318 Early Childhood Methods and Materials
- Educ 319 Practicum I in Early Childhood Education
- Educ 323 Utilizing Family and Community Resources for the Young Child
- Educ 406 Practicum in Child Study: Uses and Interpretation of Informal Observation Techniques
- Educ 408 The Young At-Risk Child: Screening, Assessment and Prescription
- Educ 409 Topics in Early Childhood Educ 430 Language Development
- HPER 340 Motor Learning in Physical Education

Special considerations for field experiences are as follows:

Students in Educ 329 - Pedagogical Theories, Methods and Practices will be assigned to a kindergarten, first, second or third grade classroom for a specified number of clock hours.

Students in Educ 319 - Practicum I in Early Childhood Education will be assigned to the MSSC Child Development Center for 64 clock hours.

Students in Educ 406 - Practicum in Child Study will be assigned to a public school prekindergarten setting for 48 clock hours. Students in Educ 442 - Student Teaching will be assigned to two different early childhood settings involving two different age groups, prekindergarten through grade 3.

Middle School Certification

Elementary education majors wishing to obtain middle school endorsements (grades 4-9) with elementary certificates may do so by completing the teaching specialty requirements for grades 7-9 and

Teacher Education

specified courses for middle school teachers. A program plan for the middle school endorsement certificate is available in education department office.

Teacher Certification by Academic Contract

An "Academic Contract" may by executed with Missouri Southern on the condition that the person qualifies for admission into the teacher education program, has a signed statement from a school superintendent certifying employment, has less than 12 hours of deficiencies toward the certificate being sought, and has been properly enrolled in the College. All B.S.E. graduates from Missouri Southern are recommended for PC-I Certification by the Dean of the School of Education and Psychology.

Secondary Education

The curriculum for secondary education is a joint effort of each department supporting a teaching specialty area and the education department. Program development, program changes and program evaluations for secondary education are done by the Secondary Education Committee which is part of the teacher education governance structure. The work of the committee is further implemented and reviewed by the Teacher Education Council and the education department, which is the governing unit in teacher education. Departments having a teaching specialty submit recommendations regarding specialty programs to the Secondary Education Committee. These recommendations represent the department's adherence to guidelines of learned societies, Missouri DESE guidelines, guidelines from accrediting bodies and from research and accepted practices that make up the knowledge base for secondary pro-

The Secondary Education Committee has adopted the following objectives for all secondary education majors:

- The students shall demonstrate teaching competency in one or more teaching specialties.
- The students know the general stages of growth and development and can relate these to educational planning in the teaching specialties.
- The students can demonstrate knowledge of cultural diversity, mental exceptionalities and physical exceptionalities as they relate to instructional planning.

- The students are aware of at least three classroom management models and can use them for classroom control.
- The students can develop lesson and unit plans that contain clearly stated objectives, activities that parallel the objectives and appropriate evaluations that assess performances on these objectives.
- The students have a knowledge of assessment and evaluation techniques and can apply this knowledge to determine instructional and learning effectiveness.
- The students are aware of the new technologies in education and can use them in their teaching specialities.
- The students can apply learning theory to instructional design and educational planning.
- The students know and can apply a number of teaching methods and techniques, such as lecture, discussion, higher order and divergent questioning, closure, set induction and the use of examples and illustrations.
- The students can use teacher evaluation techniques such as peer observation and interaction analysis.
- The students can demonstrate the knowledge and understanding of philosophical and historical foundations of education.
- The students can demonstrate a knowledge of current research in the area of teaching effectiveness.

The student who desires to teach in a secondary school may choose to become qualified in a single teaching field with a high degree of specialization or in two different teaching fields with a lesser degree of specialization. Specialties available for secondary school teaching are:

- 1. Art
- 2. Biology
- 3. Chemistry
- 4. Business Education
- 5. English
- 6. Spanish
- 7. Mathematics
- 8. Music
- 9. Physical Education

- 10. Physics
- 11. Physical
 - Science
- 12. Social Science
- 13. Speech & Theatre
- 14. Computer
 Science as
 a second
 teaching field

Along with a teaching specialty, a student may elect a supporting area (a minor) from any one of the above listed teaching specialties. Under certain circumstances, it is possible for students to become qualified to teach art, music or physical education at both the elementary and secondary school level. Students interested in such a program should consult the department involved.

Plan A: (Double Major)

Plan A is intended for those who desire to qualify as teachers in two different subject matter areas. Each area requires a minimum of 30 semester hours of specific course work which must meet minimum Missouri State Department of Elementary and Secondary Education requirements. Plan A is not available in social science, music or in programs preparing teachers for both elementary and secondary education. If Plan A is selected, the second teaching field is required. Students may select an adviser in either department chosen as a major or from the department of education.

Plan B: (Single Teaching Field, Comprehensive Major)

Plan B is intended for persons who wish to concentrate teacher preparation in one subject matter area only. Forty or more semester hours are required in the subject matter area or related supporting courses listed in this catalog by department.

Students choosing a single teaching field also may qualify for certification in a second teaching field for grades 7-9 by taking specified courses in the second teaching field. Those interested in certification in a second teaching field for grades 7-9 should see the Dean of the School of Education and Psychology for course requirements.

Each department involved has developed a program of studies to be pursued by students who choose to follow either of the above plans. Plan B is mandatory for majors in social science, music and in certain programs preparing students for dual certification at both the elementary and secondary school level.

Basic Professional Education Courses

The following sequence of courses is to be completed by students planning to teach at the secondary or elementary level.

Freshman-Sophomore Year

Students should take Psy 100 General Psychology and Educ 302 The Exceptional Child, during their first two years.

Teacher Education

Freshman	Year	
First Seme	ester	
Educ 100	Orientation to Educ I	1
Psy 100	General Psychology	3

2nd Semester

Sophomore Year 1st Semester Educ 200 Orientation to Educ II Take C-Base Test

2nd Semester Apply for Admission to Teacher Education. See page 117 for requirements. Educ/Psy 302 The Exceptional Child 2 Educ 401 Use of Comp Software in Class

Junior Year 1st Semester Pass Media Competencies **Educational Psychology** Psv 310 Educ 329 Pedagogical Theories, Methods & Practices Educ 321 Microteaching Educ 423 Classroom Management

Note to secondary majors: students must take Educ 422 Teaching Reading in the Secondary School.

Note to K-12 students, i.e., special education, art, music, middle school, foreign languages and physical education. Students in the afore listed areas must take Psy 100 General Psychology and Psy 305 Developmental Psychology.

Senior Year

chology.

1st Semester

Apply for Student Teaching. See page 117 for admission requirements. All course work must be completed except for Professional Semester courses.

2nd Seme	ster	
Elementar	y Teaching	
Educ 322	Methods of Teaching Socia	1
	Studies in the Elem School	2
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues	2
Educ 442	Student Teaching in the	
	Elem School	8
Select two	o of the following:	
Educ 412	Individualized Curriculum	2
Educ 420	Intro to Counseling*	3
Psy 412	Measurement - Evaluation	in
	Psy & Educ	2
OR other	educational courses approve	ed by

*Must be taken on the night schedule in the semester preceding student teaching.

Secondary Teaching

Educ	Methods course for sec	
	teaching specialty 2	
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues in Educ	2
Educ 462	Student Teaching in the Se	C
	School	8
Select two	o of the following courses:	
Educ 412	Individualized Curriculum	2
	Intro to Counseling*	3
Psy 412	Measurement - Evaluation	in
5 500 10 11	Educ & Psy	2
OR other	education courses approve	d by
the Dean	, School of Education and	Psy-
chology.		108

*Must be taken at night the semester before student teaching.

Senior Year

The first semester of the senior year is a continuation of teaching specialty courses and professional education courses. It is during this time that the student applies for graduation and student teaching. The student should review the requirements for both graduation and admission to student teaching. This should be done prior to the first semester of the senior year.

The last semester of the senior year is an extremely busy one. During the first six weeks of the semester the student must complete professional education courses, and in the case of the secondary student, take the required teaching methods course. Courses taken during the first six weeks are five-day-a-week courses.

It is mandatory that the student attend the senior seminars. These seminars are held on each Wednesday afternoon during the first six weeks. During the seminars the student will complete applications for the National Teachers Examination and for PCI certification in Missouri. Other important business will be conducted during the seminars and it is necessary that the student be present.

All course work must be done prior to student teaching. Student teaching is the culminating experience in teacher education. Student teaching requires 50 full days of assigned classroom experiences. It is demanding work and requires the undivided attention of the student. Outside employment while student teaching is discouraged.

Combination of Elementary and Secondary Teaching (K-12 Certification)

For students with teaching specialties in art, music, foreign language or physical education who desire certification at both the elementary and secondary levels, the following Professional Semester is recommended:

	Semester Hou
Educ 402	Foundations of Educ 2
Educ 432	Critical Issues in Educ 2
Educ 464	Student Teaching,
	Combination of sec and
	elem teaching in teaching
	specialty 8
Educ	Methods course for sec
	educ in teach specialty 2-3
Select one	e of the following:
Educ 412	Individualized Curriculum 2
Educ 420	Intro to Counseling* 3
Psy 412	Measurement-Evaluation in

Educ & Psy OR other education courses approved by the Dean, School of Education and Psychology.

General Psychology and Psy Psy 100 300 are required for all elementary education students.

General Psychology and Psy Psv 100 301 Adolescent Psychology are required of all secondary students. Students who plan to teach in middle school and students who plan to certify in grades K-12 must take Psy 100 and Psy 305 Developmental Psychology.

Minor in Education

An academic minor has been created in teacher education for the B.A. and B.S. student considering a career in education at some future time. This minor is not developed to meet certifica tion requirements, but to provide the student with an adequate background in professional education for career decision making and as a foundation for the remaining certification requirements.

Minor in Education (Elementary and Secondary)

The student must meet admission requirements to the teacher education program. See page 117 for admission requirements.

the Dean, School of Education and Psy-

Education

	Semester I	Hours
Educ 302	The Exceptional Child	2
Educ 329	Pedagogical Theory,	
	Methods & Practices	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
Pass Med	ia Requirements	
Educ 401	Use of Comp Software in	3 13
	the Classroom	2
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues	2
Educ 342	Intro to Developmental	
	Reading	K I F
OR	Military and the second	
Educ 422	Reading in the Sec School	S
		3-2
Educ 412	Curriculum Development	2
		20

Education

Taylor Hall 232, 625-9309

Sandrin - Head, Banks, Joyner, Leverett, Merryman, Myers, Ray, Steere, Wiley

Students who select education as a major field may choose to become qualified at either the elementary level, the secondary level or a combination of elementary and secondary (K-12).

Elementary majors must select an area of concentration totaling 21 hours in a designated curriculum area. The area of concentration is a structured series of courses that will lead to certification in grades 7-9. The following areas of concentration/certification are available: art, computer science, early childhood education, English, health and physical education, mathematics, music, remedial reading (also requires two years of teaching experience), science, social studies, speech and theatre or special education. For further information, an adviser should be consulted.

Students selecting to major in secondary education should refer to the section on secondary education which outlines specific professional education requirements. Subject matter requirements for the specific major are listed under the appropriate department, i.e., requirements for a B.S.E. in biology are listed in the biology department section of the Catalog.

Objective for Elementary Education

The Elementary Education Major

1. has a strong background in Core Cur-

- riculum and can use the knowledge and skills obtained as a basis for the teaching content in the school setting;
- 2. can identify the general stages of child development and how these relate to educational planning;
- 3. can determine students' present level of performance and use the assessment for educational planning;
- 4. can identify developmental and behavioral problems and can make appropriate referrals;
- 5. can apply learning theory, instructional design and educational planning to classroom environments;
- 6. can organize and manage a classroom that permits enough freedom to encourage independent and critical thought and one that provides enough security that a child may feel safe;
- 7. is able to develop a learning program based on clearly stated instructional objectives which are functional and is able to parallel these objectives with learning activities, relevant resources and evaluations;
- 8. is able to match objectives and learning activities to individual needs and abilities of students;
- 9. can apply the new technology in education such as hardware and software, e.g., microcomputers and can use them as learning activities to meet instructional goals and objectives;
- 10. can use a variety of teaching techniques in the classroom;
- 11. can incorporate into instructional planning the individual needs of students that may be evident in cultural diversity, values clarification and mental and physical exceptionalities;
- can use differentiated assessments to determine whether or not students' objectives are being met;
- 13. is able to apply classroom management techniques humanely and within the policies of the state and local school board:
- 14. recognizes the contributions of professional organizations which promote, advance and improve the quality of education;
- 15. has a plan for personal professional growth and development which includes self evaluation;
- 16. advocates and practices sound professional ethics in and out of the school setting
- 17. can utilize relevant educational research findings and information from

- the professional literature in designing an effective learning program for students;
- 18. can implement an instructional management system in a classroom setting;
- 19. can design appropriate instruction to meet a set of established competencies, e.g., Missouri Core Competencies.

Bachelor of Science with a Major in Elementary Education

	Semester H	ours
	culum Requirements	51
	Requirements	
Math 120	Mathematics for Elem	
	Teachers II	3
Eng 325	Children's Literature	3
Art 220	Art Education	3
Mus 332	Music for Elem School	3
Psy 300	Child Psychology	3
	02 Exceptional Child	2
Psy 310	Educational Psychology	2
HPER 311	Physical Education for the	
	Elem School	2
Educ 401	Computer Software in the	-
Lauc 10.	Classroom	2
Student m	ust be tentatively admitted	
	lucation prior to taking the	
following	courses (see admission	
requireme		
	Pedagogical Theory,	
Luuc 323	Methods and Practices	4
Educ 221		2
Educ 321	Microteaching Classroom Management	2
		_
	a competencies	
the student	take the remaining course	the
	nt must be fully admitted to	the
	lucation program.	
Educ 311	Science in the Elem Schoo	_
F.I. 040	D 11 (T 1:	2
Educ 312	Problems of Teaching	2
	Arithmetic in Elem School	
Educ 340	Language Arts	2
Educ 342	Intro to Developmental	
	Reading	3
Educ 343	Teaching Reading in the	
	Middle school	3
Educ 470	Diagnostic and Remedial	
	Reading	3
D . C	15	
	al Semester Courses	

Students taking the following courses must have completed their applications for the student teaching experience: Minimal hours required Educ 402 Foundations of Education 2 Educ 432 Critical Issues in Education

Psychology

Educ 322	Teaching Social Science in the Elem School	2
Flactives in	n Education	-
	from the following:	
Educ 412	Individual Curriculum	
	Development	2
Educ 303	Middle School Curriculum	1
		2
Educ 317	Curriculum in Early	
zaac o	Childhood Education*	3
Educ 420		3
		3
Psy 412	Measurement and	
	Evaluation	2
Educ 442	Student Teaching	8
Meet all e	xit requirements (see	
graduation	requirements)	
	oncentration	2
	s is open only to early	
	specialization students and	4 ic
		1 15
a required		4 15 3
**Student	s must take this course at n	ight
	ster prior to student teaching	

Suggested Order of Study

Bachelor of Science in Education with a Major in Elementary Education

Freshman	Year	
1st Semes	ter	
Course	Н	lour
Educ 100	Orientation to Educ I	
Psy 100	General Psychology	3 - 3
CORE	[Eng 101 Comp I]	1
CORE	[Math 111 Math for Elem Teach	ers
	[]	
CORE	[Econ 180 Amer Econ System]	
Psy 120	College Orientation	
		14

] :

Sophomor	e Year	
1st Semest	ter	
Educ 200	Orientation to Educ II	
CORE	[Bio 101 General Biology]	4
CORE	[Mus 110 Music Apprec]	
CORE	[Hist 120 U.S. History 1877-	
	Present]	
Select one	: 3	
CORE	[Art 110 Art Apprec]	
CORE	[TH 110 Theatre Apprec]	
CORE	[PSc 120 Gov't: U.S., State, Local	1

2nd Semes	ster	
Take C-Ba	se Exam. Apply for admission to t	he
teacher ed	lucation program.	
Psy 300	Child Development	3
Psy 310	Educational Psychology (Psy 100)	2
CORE	[Soc 110 or 152 Sociology]	3
CORE	[HPER 370 School Health Educ]	3
CORE	[Phys 100 Fund of Phys Sci]	5
Art 220	Art Educ	2
Educ 401	Comp Software in the Class	2
		20

Junior Year		
1st Semeste	er	
Must be te	ntatively admitted to the teacher	
education	program before courses with the	
"Educ" pre	fix can be taken.	
Educ 329	Pedagogical Theory, Methods &	
	Practices	
Educ 321	Microteaching	
Educ 423	Classroom Management	
Pass media	competencies	
Mus 322	Music for Elem School	
CORE	[HPER 311 P.E. for Elem School]	
CORE	[Geog 211 Regions & Nations]	
Educ 302	The Exceptional Child (Psy 100)	
	15-	1
2nd Semes	ter	

Educ 325	Children's Literature	3
Educ 340	Teaching Language Arts	2
Educ 342	Intro to Developmental Reading	3
Educ 312	Problems of Teaching Arithmetic	3
Educ 311	Teaching Science Elem School	2
		13
Senior Yea	r	
1st Semest	ter	
Educ 343	Teaching Reading in Middle	

Educ 343	Teaching Reading in Middle
	School (Educ 342)
Educ 470	Diagnostic & Remedial Reading (take with Educ 342)
Educ 322	Teaching Social Studies in Elem School

Professional Semester
For additional information contact:
Education Department
Office: Taylor Hall 237

Psychology

Taylor Hall 206, 625-9315

2nd semester

Phone: 625-9308

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Faculty Babbitt, Griffin, Junkins, Murdock, Paige, Volskay, Wang

The psychology department offers three degrees: the bachelor of arts (B.A.), the bachelor of science (B.S.) and the bachelor of science in education with a major in psychology-special education (B.S.E). The B.A. and B.S. degrees provide an excellent foundation for students who wish to earn

advanced graduate degrees in pursuit of a career in psychology. The B.S.E. degree is offered in cooperation with the education department. Graduates of that program will be certified to teach special education in K-9 and to teach psychology at the secondary level. Some possible options with the B.S.E. are given following the description of that program below.

Bachelor of Arts in Psychology

Semester Hours

Core Curi	riculum Requirements		
(page 35)			5
Foreign La	anguage		1
Psycholog	gy Requirements		4
Psy 100	General Psychology	3	
Psy 305	Developmental Psychology (4)	/	
OR			
Psy 300	Child Development (3) 4	-3	
Psy 320	Applied Statistics for the		
Service of the service of	Behavioral Sciences*	3	
Psy 325	Computers in the Behavior	al	
	Sciences	3	
Psy 330	Experimental Psychology**	k	
		5	
Psy 411	Psychology of Sensation ar Perception	nd	
OR			
Psy 442	Physiological Psychology	3	
Psy 341	Social Psychology		
OR			
Psy 422	Theories of Personality	3	
Psy 451	Learning and Memory	3	
Psy 452	History and Systems of		
	Psychology	3	
Psy 480	Senior Seminar	2 2	
Psy 481	Senior Thesis	2	
Psycholog	gy Electives	6	
Supportin	g Area		2
The cupp	porting area requires at lea	ct	2

The supporting area requires at least 21 hours in one of the following areas: music, economics/finance, English/literature, history, journalism, law enforcement, marketing/management, military science, political science, sociology or other area approved by the adviser and the department.

Electives (from psychology or other) 4 128

*Formerly numbered 311

**Formerly numbered 312

Bachelor of Science in Psychology

Semester Hours

Core Curriculum Requirements (page 35)

Psychology

School of Education and Psychology/123

	gy Requirements	40	OR			Minor i	n Psychology	
Psy 100	General Psychology 3	3	Psy 411	Psychology of Sensation ar	nd	Psy 100	General Psychology	3
Psy 305	Developmental Psychology			Perception	3	Psy 305	Developmental Psycholo	
	(4)		Psy 412	Meas & Eval in Educ &		,	(4)	01
OR		136		Psychology	2	OR	()	
Psy 300	Child Development (3) 4-3	3	Psy 451	Learning and Memory	3	Psy 300	Child Development (3)	4-3
Psy 320	Applied Statistics for the					Psy 320	Applied Statistics for the	
	Behavioral Sciences*	3	Education	Requirements	51	134 320	Behavior Sciences*	3
Psy 325	Computers in the Behaviora	1	Educ 312	Problems of Teaching		Psy 330	Experimental Psychology	
,	Sciences	3		Arithmetic in Elementary		1 3y 330	Experimental 1 sychology	5
Psy 330	Experimental Psychology**			Schools	3	At least of	one 3 credit hour 400 level	3
		5	Educ 324	Introduction to Special			gy course	3
Psy 411	Psychology of Sensation and	1		Education	3		egy electives	5
	Perception		Educ 329	Pedagogical Theory,		1 sycholo	gy electives	21
OR				Methods and Practices	4	*Formarl	y numbered 311	21
Psy 442	Physiological Psychology	3	Educ 321	Microteaching	2		rly numbered 312	
Psy 341	Social Psychology		Educ 342	Introduction to		Torrie	ny nambered 312	
OR	556.0.15/6.15158/			Developmental Reading	3		1.10.1	
Psy 422	Theories of Personality	3	Educ 343	Reading in Middle School	3	Sugge	sted Orders of Stu	idy
Psy 451		3		8		Bachelor o	of Arts	
Psy 452	History and Systems of	1000	Pass Med	ia Competency		Major Co	de 2000	
1 3y 432		3		Foundations of Education	2	Psycholog	y Major	
Psy 480		2		Methods of Teaching the				
		2		Mentally Handicapped		Freshman		
Psy 481			OR			1st Semes	ter	Hours
	ogy Electives	21		Methods of Teaching		Course Psy 100	General Psychology	3
Supportin		1000	Lade 101	Children with Learning		CORE	[Eng 101 Comp I]	3
	porting area requires at leas			Disabilities		CORE	[Math 110, 130 or 131]	3
	one of the following areas: bid		OR	Disabilities		Psy 120	College Orientation	1
	nistry, computer science, mat			Methods of Teaching		CÓRE	[Core Electives]	5
	physics or other science area		Luuc 403	Children with Behavioral				15
proved b	y the adviser and the departm	ent.		Disorders	3	0.10		
Additiona	al hours of science	9	Educ 407	Diagnostic and Prescriptive		2nd Seme		2
	(from psychology or other)	7	Luuc 407	Teaching	3	CORE	[Eng 102 Comp II (Eng 101)] Developmental Psychology	3 4
	(128	Educ 420		THE STATE OF THE S	Psy 305 Biology	Developmental Esychology	4
*Formerl	y numbered 311		Educ 420	Introduction to Counseling	2	CORE		5
	rly numbered 312		Educ 120	Language Development of	The Parket	CORE		16
			Educ 430	Language Development of				
	lor of Science in		Educ 122	Exceptional Children Critical Issues in Education	3	Sophomor		
Educa	tion with a Major in				1 2	1st Semes		440) 2
Psvch	ology - Special	186	Educ 444	Student Teaching-Special	0	Psy 320	Applied Statistics (Psy 100 o	r 110) 3
Educa			F.1 446	Education	0	Psy 411	Sensation and Perception**	
Luuca	Semester Ho	urs	Educ 446	Practicum in Special	2	OR Pov 241	Social Psychology	3
Core Cur	riculum Requirements	1	F.J., 470	Education	3	Psy 341 Supportin		3
(page 35)		54	Educ 4/0	Diagnostic and Remedial	2	CORE	6,	5
Psycholo	gy Requirements	36	-1	Reading	3	Foreign La	anguage	3
Psy 100	General Psychology	3	Educ 474	Educational-Psychological			0 0	17
Psy 302	The Exceptional Child	2		Testing in Special Educatio	-			
Psy 305	Developmental Psychology	100			3	2nd Seme		
1 3y 303	Developmental 1 sychology	4			141	Psy 325	Computers in Behavioral Sc	
Psy 310	Educational Psychology			numbered 311		Day 442	(Psy 320)**	3
Psy 320	Applied Statistics for the		**Former	ly numbered 312		Psy 442 OR	Physiological Psychology*	
134 320	Behavioral Sciences*	3	This prog	gram leads to certification in	K-12	Psy 422	Theories of Personality**	3
Pev 325			in one of t	three areas - teaching the lea	rning	Psycholog		3
Psy 325	Computers in the Behaviora	3		behavior disordered or me		Elective		3
Dev 220	Sciences Experimental Psychology**			ped. If the student wishes		Foreign La	anguage	3
Psy 330	Experimental Psychology**	-				0		15
Day 202	Introduction to Pobavica			n all three areas, the three r				
Psy 382	Introduction to Behavior	2		ses - Educ 403, 404 and 405 e program must be taken. A		Junior Yea		
			THE 2001/6	e program must be taken. A	DidC-	1st Semes	ter	
Day 400	Management	,	ticum =	est he done for each area	fom			CV 225)
Psy 432 Psy 442	Abnormal Psychology Physiological Psychology	3	ticum mu	ist be done for each area on the AH, LD and BD.	f em-	Psy 330	Experimental Psychology (P	sy 325)

Psychology

Supporting		3	Psycholog	y Elective	3	Psy 320	Statistics (Psy 100 & Math 130 c	
Foreign La	anguage	3	Elective		3	D 040	131)	3
CORE		3	Science		3	Psy 310	Educational Psychology	2
		14			15	Psy 325	Comp in Behavioral Sci	3
2nd Seme	ester		Junior Yea	r		CORE	[Math 120 Math Flow Teacher II	
Psy 451	Learning, Memory and Cognit	ion	1st Semes	ter		CORE	[Math 120 Math Elem Teacher II	18
, , , ,	(Psy 330)**	3	Psy 330	Experimental Psychology (I	Psy 325)			10
Psycholog		3			5	2nd Seme		
Supporting	g Area	6	Supporting	g Area	3		tentative admission to Teacher Ed	uca-
Foreign La	anguage	3	Science		3		C-Base Test.	
		15	CORE		3	Psy 382	Intro to Behavior Management	
Canian Van					14	Psy 330	Experimental Psychology	5
Senior Yea			2nd Seme	ster		Psy 302	Exceptional Child	2
1st Semes Psy 480	Senior Seminar	2	Psy 451	Learning, Memory and Co	gnition	CORE		6
Psy 452	History & Systems (Psy 330)*	3		(Psy 330)**	3			10
Psycholog		3	Psycholog	y Elective	3	Junior Yea	r	
CORE	sy Elective	3	Supportin	g Area	6	1st Semes		
Supporting	g Area	6	Science		3	Educ 329	Pedagogical Theory, Methods a	
	8	17			15	F.1	Practices	4
			Senior Yea			Educ 321	Microteaching	2
2nd Seme			1st Semes				npetencies	-
Psy 481	Senior Thesis**	2	Psy 480	Senior Seminar	2	Educ 324	Intro to Special Education	3
CORE		6	Psy 452	History and Systems (Psy 3		Psy 432	Abnormal Psychology	3
Psycholog	gy or other electives	9	Psycholog		3	Psy 411	Sensation and Perception	15
+011	(1)	17	CORE		3			15
	fall semester only		Supportin	g Area	6	2nd Seme	ster	
	spring semester only				17	Educ 342	Intro Devlpmntl Rdg.	3
()Prerequi	nent Recommendation		2nd Seme	ctor		Educ 312	Problems Tchg Arith	3
Прерагии	ient Recommendation		Psy 481	Senior Thesis	2	Educ 474	Educational-Psychological Testin	
Bachelor o	of Science		CORE	Serior Triesis	6	Psy 451	Learning & Memory**	3
Major Co				gy or other electives	9	Educ 403	Methods Tchg MH	3
Psycholog			Tayerlolog	sy of other electives	17	Educ 420	Intro Counseling	3
			*Offered	fall semester only		OR	Mathada Taha ID	
Freshman				spring semester only		Educ 404 OR	Methods Tchg LD	
1st Semes			()Prerequi			Educ 405	Methods Tchg BD	
Course		Hours	Other Den			Lauc 403	Wicthods Telig bb	18
Psy 100 CORE	General Psychology [Eng 101 Comp I]	3		uirements	omputor			
CORE	[Math 110, 130 or 131]	3		are required from math, c chemistry, biology and/or ph		Senior Yea		
Psy 120	College Orientation	1		to all other requirements. T		1st Semes		2
CORE		5		foreign language requiremen		Educ 343	Reading in Midl Schl	3
		15				470 Educ 446	Diag & Rmdl Rdg Pract in MH or LD or BD	3
				of Science in Education		CORE	Tract III WITT OF ED OF BD	3
2nd Seme			Major Co			Psy 411	Sensation and Perception	3
CORE	[Eng 102 Comp II (Eng 101)]	3	Psycholog	y-Special Education Major		OR	sensation and rereeption	3
CORE	[Bio 101 General Biology]	4	Freshman	Year		Psy 442	Physiological Psychology	
CORE Psy 305	Davidopmental Pavahala	5	1st Semes	ter		Educ 430	Lang Development	3
1 Sy 303	Developmental Psychology	16	Course		Hours			18
		10	Psy 100	General Psychology	3	and Como	otor	
Sophomor	re Year		Educ 100	Orientation to Educ I	1	2nd Seme Psy 412	Measurement & Evaluation	2
1st Semes	ster		CORE	[Eng 101 Comp I]	3	Educ 402	Foundations of Education	2
Psy 320	Applied Statistics (Psy 100)	3	CORE	[Math 110, 130 or 131]	3	Educ 432	Critical Issues	2
Psy 411	Sensation and Perception**		Psy 120	College Orientation	1	Educ 407	Diagnostic Prescriptive Teachin	
OR			CORE		7	Edde 107	Diagnostic Prescriptive reaction	3
Psy 341	Social Psychology*	3			18	Educ 444	Student Teaching	8
Supportin	g Area	3	2nd Seme				0	17
CORE		8	CORE	[Eng 102 Comp II (Eng 101		*Offered f	fall semester only	
		14	CORE		10		spring semester only	
2nd Seme	ester		Psy 305	Developmental Psychology		()Prerequi:	site	
Psy 325	Comp in Behavioral Sci (Psy 3)	20)**			17	[]Departm	ent Recommendation	
		3	Sophomor	e Year		For addition	onal information contact:	
Psy 442	Physiological Psychology*		1st Semes			Dr. Betsy		
OR			CORE	[HPER 370 School Health]	3	,	ylor Hall 209	
Psy 422	Theories of Personality**	3	Educ 200	Orientation to Educ II	1	Phone: 62		

Physical Education

Health, Physical **Education and** Recreation

Robert E. Young Gymnasium 212, 625-9316

Oldham - Head, Ballard, Beard, Cade, Conklin, Cooke, Corn, Evans, Frazier, Hernandez, Lampe, Lantz, Nelson, Rutledge, Scheible, Traywick, Turner, Wilson

Students who desire certification as a teacher of physical education may choose to become qualified at either the elementary level, the secondary level or a combination of both. Students planning to major in this field should refer to page 114 where the teacher education program is described. Students planning to teach at both elementary and secondary levels should select the K-12 plan. Those desiring to make physical education one of two teaching fields should prepare under either the K-9 plan or the 7-12 plan. The student will consult the specific department concerned for the requirements of the second teaching field.

Objectives for Physical Education, Grades K-12

The student can: (1) develop units of instruction in physical education that are appropriate to grades K-12, (2) demonstrate competency in teaching physical education at the various grade levels, (3) develop measurement and evaluation techniques for physical education activities in grades K-12, (4) identify characteristics which make one group different from another and effectively plan for the needs of individuals who represent this cultural diversity, (5) develop a unit of instruction appropriate for adapted physical education activities for exceptional children, (6) identify high risk areas of the physical education program and incorporate sound principles related to safety and supervision in planning.

Bachelor of Science in Education with a Major in Physical Education

K-12 One Teaching Field

	Semester	Hours
Core Curi	riculum Requirements	
(page 35)		48
Physical E	Education Requirements	51
Bio 306	Human Physiology &	
	Anatomy*	5

HPER 251	Fundamentals of Physical	
	Educ Activities I*	3
HPER 252	Fundamentals of Physical	
	Educ Activities II*	3
HPER 255	Theory and Practice of	
	Dance and Exercise*	2
HPER 310	The Elem School Physical	
	Educ Program*	3
HPER 312	Teaching Elem School	
	Physical Educ*	3
HPER 321	Theory and Analysis of	
	Selected Team Sports*	3
HPER 332	Rhythmic Form and	
	Analysis*	2
HPER 335	History and Philosophy of	f
	Physical Educ*	2
HPER 340	Motor Learning in Physica	ıl
	Educ*	3
HPER 342	Kinesiological Approach t	0
	Movement*	3
HPER 345	Tests & Measurements in	
	Physical Educ*	2
HPER 365	Socio-Psychological	
	Aspects of Physical Educ*	
		2
HPER 370	School Health Educ	
	(Elem)*	3
HPER 431	Physiology of Exercise*	2
HPER 450	Prevention and Care of	
	Injuries*	3
HPER 470	Administration of Physica	
	Educ*	2
Select a mi	nimum of five hours from	the
following:		
HPER 350	Theory of Basketball*	2
HPER 351	Theory of Football*	2
HPER 352	Theory of Track & Field*	2
HPER 353	Theory of Soccer*	1
HPER 354	Theory of Volleyball*	1
HPER 360	Theory of Baseball*	2
Education 6	Certification Requirements	
(page 118)		30
		129
*See Prere	quisites	

Bachelor of Science in Education with a Major in Physical Education

7-12 Two Teaching Fields

Semester Hours **Core Curriculum Requirements** 48 (page 35) **Physical Education Requirements** 37 Bio 306 **Human Physiology &** Anatomy* 5 Fundamentals of Physical **HPER 251** Educ Activities I* **HPER 252** Fundamentals of Physical

Educ Activities II*

HPER 255	Theory and Practice of	
	Dance and Exercise*	2
HPER 321	Theory and Analysis of	
	Selected Team Sports*	3
HPER 335	History and Philosophy	of
	Physical Educ*	2
HPER 342	Kinesiological Approach	to
	Movement*	3
HPER 345	Tests & Measurements in	1
	Physical Educ*	2
HPER 365	Socio-Psychological	
	Aspects of Physical Educ	*
		2
HPER 431	Physiology of Exercise*	2
HPER 450	Prevention and Care of	
	Injuries*	3
HPER 470	Administration of Physica	al
	Educ*	2
Select a mi	nimum of five hours from	the
following:		
HPER 350	Theory of Basketball*	2
HPER 351	Theory of Football*	2
HPER 352	Theory of Track & Field*	2 2 2 1
HPER 353	Theory of Soccer*	
HPER 354	Theory of Volleyball*	1
HPER 360	Theory of Baseball*	2
	Certification Requirements	
(page 118)		30
Unrestricte	d Electives or Second	
Teaching Fi		13
0	at a protraction and	128
*See Prerec	quisites	

Bachelor of Science in Education with a Major in Physical Education

K-9 Two Teaching Fields

Semester Hours **Core Curriculum Requirements** 51 (page 35) **Physical Education Requirements** 33 Bio 306 **Human Physiology &** Anatomy* **HPER 310** The Elem School Physical Educ Program* 3 Teaching Elem School **HPER 312** Physical Educ* 3 **HPER 321** Theory and Analysis of Selected Team Sports* 3 **HPER 332** Rhythmic Form & 2 Analysis* History and Philosophy of **HPER 335** Physical Educ* Motor Learning in Physical **HPER 340** Educ* **HPER 342** Kinesiological Approach to Movement*

Physical Education

HPER 345	Tests & Measurements in	n	Minor in	Athletic Training		CORE	[Bio 121 General Zoology]	4
	Physical Educ*	2		Semester	Lours	CORE		9
HPER 365			D: 200					16
THER SOS	Aspects of Physical Educ	*	Bio 306	Human Physiology and				
	Aspects of Flysical Educ			Anatomy**	5	Sophomor	e Year	
		2	HPER 220	First Aid	2	1st Semes	ter	
HPER 370	School Health Educ(Elen	n)*	HPER 342	Kinesiological Approac	h to	Educ 200	Orientation to Educ II	1
		3		Movement*	3	HPER 251	Fund of Physical Activities I (30	1
HPER 431	Physiology of Exercise*	2	HPER 431	Physiology of Exercise*			Hrs)	3
	Certification Requirement	S				CORE	[PSY 100 Fund of Phys Sci]	5
(page 118)		30	HPER 450	Prevention and Care of		CORE	[Core Electives]	9
	ed Elective or Second	30		Injuries*	3	CORE	[Core Licenves]	18
		4.4	HPER 451	Advanced Athletic				10
Teaching F	rield	14		Training*	2	2nd Seme	ctor	
+6 5		128	Select one	e of the following:			tentative admission to Teacher Ed	luca-
*See Prere	equisites		Rad 111	Medical Terminology	3		C-Base Test.	uca-
Minor in	Dhysical Education		DH 310	Nutrition	2		Fund of Physical Activities II (3)	0
	Physical Education		D11310	Nutrition		TIFER 232		
(non-tea	ching minor)		*C D		19-20	LIDED SEE	Hrs)	3
	Semester	Hours	*See Prere	equisites			Theory of Dance (30 Hrs)	2
Bio 306	Human Physiology &		Hoalth E	ducation Certification	n for	HPER 335	Hist & Phil PE (HPER 251)	2
510 500	Anatomy*	5				Bio 306	Human Phy & Anat (Bio 121)	5
LIDED 225			Physical	Education Majors ar	nd	Psy 310	Educ Psy (Psy 100)	2
HPER 335	History and Philosophy		Biology	Maiors		CORE	[Core Electives]	3
	Physical Educ*	2	0/		u Llaure			17
HPER 342	Kinesiological Approach	to	D: 404	Semeste	r Hours			
	Movement*	3	Bio 101	General Biology		Junior Yea		
HPER 365	Socio-Psychological		OR			1st Semes		
	Aspects of Physical Educ	*	Chem 101	General Chemistry*	4-5	HPER 310	0	
	rispects of Thysical Educ	2	HPER 160	Personal Health	2	HPER 321	Team Sports (HPER 252)	3
LIDED 421	Dhysiology of Eversion*		Psy 221	Psychology of Personal		HPER 332	,	
HPER 431	Physiology of Exercise*	2	,	Adjustment	3	Psy 305	Developmental Psychology	3
HPER 450	Prevention and Care of		Soc 221	Marriage & Family		HPER 340	Motor Learn (HPER 310 or 311)	
	Injuries*	3		Marriage & railing		HPER 370	School Health-Elem (4 Hrs Bio)	
Select one	e of the following:		OR	B.1 1 11 4		Psy 302	Exceptional Child (Psy 100)	3
HPER 251	Fundamentals of Physica	1	Bio 308	Pathophysiology*	3-4	Coaching	Theory Course	1-2
	Educ Activities I*	3	Bio 306	Human Physiology and			1	17-18
HPFR 252	Fundamentals of Physica	_		Anatomy*	5			
111 LIX 252	Educ Activities II*	3	DH 310	Nutrition	2	2nd Seme	ster	
LIDED 224		3	HPER 370	School Health Educ (Se	(C)*		a Competencies	
HPER 321	Theory and Analysis of		· ii · Lit · O · O	Seriodi Ficaltii Edde (Se	3	HPER 312	Teach Elem School PE (HPER 31	10) 3
	Team Sports	3	Electives		3	HPER 342	Kinesiology (Bio 306)	3
		20	Electives:	Fine At I		HPER 345	Tests & Meas in PE (Psy 310)	2
*See Prere	equisites		HPER 220	First Aid		Educ 329	Pedagogical Theory, Methods	and
Minor in	Coaching		OR				Practices	4
Willor In	Coaching		Bio 211	Microbiology*	2-5	Educ 321	Microteaching	2
	Semester	Hours		COLUMN TO SERVICE AND AREA OF THE SERVICE AND AREA OF	24-29	Educ 370	Intro to Instructional Media	2
Bio 306	Human Physiology &		*See Prere	equisites		Coaching	Theory Course	1-2
	Anatomy*	5				Educ 423	Class Manage	2
HPFR 150	Rules and Officiating of							19-20
111 EK 150		_	•	1 10 1 664				
LIDED 242	Team Sports	3	Sugges	sted Orders of St	udy	Senior Yea	r	
HPER 342	Kinesiological Approach		Bachelor of	Science in Education		1st Semes		
	Movement*	3	Major Code				Student Teaching	
HPER 450	Prevention and Care of			ucation Major K-12			Socio-Psy Aspects of PE (HPER	252)
	Injuries*	3	i ilysicai Lu	ucation Major K-12			octo ray rispects of the (thinking	2
Select a m	ninimum of five hours from	n the	Freshman Y	ear		HPER 431	Physiology of Exercise (Bio 306) 2
following:		D. Street	1st Semeste	er		HPER 450		
	Theory of Basketball*	2	Course		Hours	150	The different of mightes (File ER)	3
HPER 351			CORE	[Eng 101 Comp I]	3	HPER 470	Adm of PE (20 Hrs HPER)	,
	Theory of Football*	2	Educ 100	Orientation to Educ I	1	170	STATE (EUTHOTHER)	2
HPER 352	Theory of Track and Field		Psy 100	General Psychology	3	Educ 422	Reading Secondary School	2
		2	CÓRE	[Core Electives]	9		Theory Courses	1-2
HPER 353	Theory of Soccer*	1	Psy 120	College Orientation	1	Electives	Theory Courses	3
HPER 354	Theory of Volleyball*	1		A PARTY OF THE PAR	17	Licetives		
HPER 360	Theory of Baseball*	2					the second secon	15-16
	,	19	2nd Semes	ter		2nd Seme	ctor	
*See Prere	equisites	13	CORE	[Eng 102 Comp II] (Eng 101) 3			2
JUST TICK	4-3100		CORL	tens 102 comp ii] (ting 101	, 3	Educ 338	Teaching Health & PE	2

Courses/Education

Educ 401	Computer Software	2
Educ 402	Foundations of Educ	2
Educ 432	Critical Issues in Educ	2
Educ 464	Student Teaching	8
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Bachelor o	f Science in Education le 0835	
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Course		ours
Educ 100	Orient to Educ I	1
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Psy 100	General Psychology	3
CORE	[Core Electives]	9
Psy 120	College Orientation	1 17
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2nd Semes	ster	100
CORE	[Eng 102 Comp II (Eng 101)]	3
CORE	[Bio 121 Gen Zoology]	4
CORE	[Core Electives]	9
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Sophomore	o Voar	
1st Semest		
HPER 251	Fundamentals of PE Act. I (30 H	rs)
F.I. 2000	Orient to Educall	3
Educ 200	Orient to Educ II	1
CORE	[Psy 100 Fund of Phys Sci]	5
CORE	[Core Electives]	9
		18
2nd Semes	ster	
CORE	[Core Electives]	9
HPER 252	Fund of PE Activities II (30 Hrs)	3
HPER 255	Theory of Dance (30 Hrs)	2
HPER 335	Hist & Phil of PE (HPER 251)	2
Bio 306	Human Phy & Anat (Bio 121)	3 2 2 5 2
Psy 310	Educ Psy (Psy 100)	2
CORE	[Core Electives]	3
COILE	(core ficerios)	17
Junior Year 1st Semest		
	a Competencies	
HPER 321		3
Psy 301	Adolescent Psychology	3
Educ 329	Pedagogical Theory, Methods a	
	Practices	4
Educ 321	Microteaching	2
Educ 423	Classroom Management	2
	Theory Course	1-2
CORE	[Core Electives]	3 8-19
2nd Semes		2
HPER 342	Kinesiology (Bio 306)	3
HPER 345	Tests & Measurements (Psy 310	
Psy 302	Exceptional Child (Psy 100)	2
	Theory Course	2-4
Electives	The second second second second	6 5-1 7
		3-17

2	Senior Yea	r	
2	1st Semest	er	
2	Apply for S	Student Teaching	
8	HPER 365	Socio-Psy Aspects PE (HPER 252)	2
16	HPER 431	Physiology of Ex (Bio 306)	2
	HPER 450	Prev & Care of Injuries (HPER 342)
			3
	HPER 470	Adm of Phys Educ (20 Hrs HPER)	3
	Educ 422	Reading Secondary School	2
	Electives	0 ,	-6
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	2nd Semes	ter	

2nd Semester
Educ 338 Teaching Health & PE
Educ 401 Computer Software
Educ 402 Foundations of Educ
Educ 432 Critical Issues in Educ
Educ 462 Student Teaching

()Prerequisites
[]Department Recommendation

For additional information contact: Dr. Max Oldham Office: Young Gymnasium 214 Phone: 625-9316

School of Education and Psychology Course Descriptions

Education (Educ)

Techniques of Reading (F, S)
13.1010-010
2 hrs. cr.
Designed to improve and enhance reading skills.
Vocabulary, comprehension and flexibility for rate are addressed in addition to the introduction of learning strategies involved in the successful transition from high school to college level of study. Provides opportunities for improving reading and study skills as well as for developing reading enrichment.

Orientation to Education I (F, S)
13.0101-100
1 hr. cr.
An orientation to teacher education required of freshmen who select elementary or secondary education as their major field. A 15 clock hour field based component is included.

Orientation to Education II (F, S)
13.0101-200
1 hr. cr.
An extension of Educ 100. Classroom experiences emphasized as well as the conditions for teaching. A 15 clock hour field based component is included.

The Exceptional Child (F, S)
13.1004-302 2 hrs. cr.
A series of awareness experiences dealing with
the added complexities an exceptional child
presents to a regular classroom teacher. Includes characteristics of the exceptional child,
resources in the community and legislation which
determines school policy. Prerequisite: Psy 100
and Psy 300 or Psy 301.

Middle School Curriculum (S)

13.1004-303 2 hrs. cr. A one semester overview of the middle school curriculum. Focus is on effective teaching and learning strategies for the middle school student. Knowledge of teaching and curricular methods suitable for students in the middle school and a comprehension of the nature of the middle school student both developmentally and academically are highlighted. Designed for education majors seeking middle school certification.

Science in the Elementary School (F, S)
13.1316-311
2 hrs. cr.
Designed to help teacher trainees (1) comprehend the basic notion of science and how children go about learning science, (2) develop materials suitable for demonstration, discovery and inquiry lessons and (3) develop the instructional skills necessary to achieve the first two goals. Students will develop lesson plans and learning kits and will present a teaching episode. Prerequisites: Courses in biological and physical sciences and Educ 321 Microteaching.

Problems of Teaching Arithmetic in Elementary Schools (F, S)
13.1311.312 3 hrs. cr.

Educ 321 may be taken concurrently with the

(See Math 312)

course.

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Application of principles of learning and techniques of presentation. Techniques for diagnosis and remediation are treated as they relate to the elementary classroom. Prerequisite: 3 hrs. of math.

Foundations, Issues and Trends in Early Childhood Education (F) (Demand)

13.1204-316 2 hrs. cr. Survey designed to acquaint the prospective teacher of young children with the historical, philosophical, psychological and social foundations of early childhood education. Designed to present current issues and trends associated with early childhood programming and consequent role expectations of prospective teachers. May be taken concurrently with the junior block courses.

Curriculum in Early Childhood Education (S) (Demand)

13.1204-317

3 hrs. cr. Curriculum development in early childhood education, with special emphasis on various program models and curriculum designs currently used at the early childhood level; the formulation of developmentally appropriate goals for and curriculum content of educational programs for young children; and models of classroom management in early childhood education. Prerequisite: Educ 316.

Early Childhood Methods and Materials (F) (Demand)
13.1204-318 3 hrs. cr.

Background in teaching strategies and materials for the young child. Fundamentals of designing

Courses/Education

developmentally appropriate small group, large group and individual learning experiences for young children; and appropriate teaching methods and materials at the early childhood level. Prerequisites: Educ 316 and Educ 317, Psy 100 or Psy 300. Must be taken concurrently with Educ 319.

Practicum I in Early Childhood Education (F) (Demand)

13.1204-319

2 hrs. cr. Supervised participation in teaching on the early childhood level in the MSSC Child Development Center for a minimum of 64 clock hours. Students will design and implement small group, large group and individual learning experiences, develop appropriate materials for children's use and practice appropriate teaching strategies for young children. Prerequisites: Educ 316, Educ 317, Psy 100 and 300. Must be taken concurrently with Educ 318.

Microteaching (F, S)

elementary school.

13.1202-321 2 hrs. cr. A required part of Educ 329 to be taken concurrently. Short teaching episodes are prepared, taught and analyzed via video-tape. The basic concern is with the demonstration of effective teaching skills.

Teaching Social Studies in Elementary School (F, S) 13.1318-322 2 hrs. cr. An introduction to the instructional materials and methods of teaching social studies in the

Utilizing Family and Community Resources for the Young Child (S) (Demand)

13.1204-323 2 hrs. cr. Resource persons, funding agencies, medical services, special help agencies and job opportunities available to teachers within the community. Provides the opportunity to talk with parents about early childhood concerns. Examines a well-designed early childhood program from a "top down" perspective. Prerequisites: Educ 316.

Introduction to Special Education (F, S)

13.1001-324

3 hrs. cr. Introduction to the three areas of special education (LD, MH, BD). This course provides the basis of understanding necessary to learn and apply the methodologies needed for each of these three areas of exceptionalities. A survey of research will be provided. Prerequisites: Educ 302, Psy 100 and Psy 305.

Pedagogical Theory, Methods and Practices (F, S) 13.1001-329 4 hrs. cr.

Examines the theoretical basis for the decision making model of the teacher education program. Provides the methodological basis for making pedagogical decisions concerning lesson design, identification of learning styles and assessment techniques. Microteaching experiences provide an opportunity to practice methods and techniques for teaching. Thirty-two hours of junior internship in the elementary and sec-

ondary school classroom provides an opportunity to refine theory into practical applications.

Teaching English and Language Arts in Secondary School (S)

13.1305-332 2 hrs. cr. An introduction to the instructional materials and methods of teaching English, speech and foreign language. Part of the Professional Semester.

Teaching Science in Secondary School (S)

13.1316-333 3 hrs. cr. An introduction to the instructional materials and methods of teaching science. Part of the Professional Semester.

Teaching Social Science in Secondary School (S) 13.1317-334 2 hrs. cr. An introduction to the instructional planning, materials and methods of teaching social science. Part of the Professional Semester.

Teaching Music in Secondary School (S)

13.1312-335 2 hrs. cr. An introduction to the instructional planning, materials and methods of teaching music. Part of the Professional Semester.

Teaching Business in Secondary School (S)

13.1303-336 2 hrs. cr. An introduction to the instructional planning, materials and methods of teaching business. Part of the Professional Semester.

Teaching Art in Secondary School (F, S)

13.1314-337 2 hrs. cr. An introduction to the instructional planning, materials and methods of teaching art. Part of the Professional Semester.

Teaching Health and Physical Education in Secondary School (F, S)

13.1314-338 2 hrs. cr. An introduction to the instructional planning, materials and methods of teaching physical education and health. Part of the Professional Semester.

Teaching Mathematics in Secondary School (S) 13.1311-339 3 hrs. cr.

An introduction to the instructional planning, materials and methods of teaching mathematics. Includes brief survey of the history of algebra and trigonometry. Part of the Professional Semester. Will not count toward a major in mathematics.

Language Arts (F, S)

13.1202-340 2 hrs. cr. Foundation course for development of understanding attitudes necessary to teach written and oral communication at the elementary level.

Introduction to Developmental Reading (F, S) 13.1205-342 3 hrs. cr.

First course in reading methods. Different approaches to teaching reading are studied and compared to individual learning styles of children.

Teaching Reading in the Middle School (F, S)

13.1205-343
3 hrs. cr. Follows the introductory course in reading. Needs of the middle school age student population are addressed. Emphasis on assessing student needs, individualizing programs based on needs, reading in the content areas, study skills and recreational reading as a lifetime habit.

Teaching Speech and Theatre in Secondary School (S)

13.1205-344 2 hrs. cr. Techniques, methods and course content used in teaching speech and theatre. Part of the Professional Semester. Prerequisite: Admission to teacher education.

Teaching Foreign Language in Secondary Schools
(S)

13.1205-345 2 hrs. cr. An introduction to the instructional materials and the methodology used in the teaching of foreign languages at the secondary level.

Teaching Computer Science in Secondary School (S)

13.1314-346 2 hrs. cr. An introduction to instructional planning, materials selection and methods of teaching computer science/data processing subjects in secondary school. Part of Professional Semester.

Corrective Reading Instruction for Classroom Teachers

13.1315-350 2 hrs. cr. Acquaint the preservice teacher seeking certification in remedial reading, with commercially prepared informal diagnostic instruments, attitude and interest inventories, prescriptive measures, anecdotal records and strategies for corrective reading instruction within the regular classroom for children at risk. Prerequisites: Educ 342, Educ 343.

Practicum in Early Childhood Education (F, S)

13.1204-375 2 hrs. cr. Supervised participation in teaching on the early childhood level at the MSSC Child Development Center on campus. Experiences include designing and conducting developmentally appropriate lesson plans, setting up learning centers in the classroom and evaluating the development of young children.

Use of Computer Software in the Classroom (F, S) 13.0301-401 2 hrs. cr.

Use of microcomputers, with emphasis on evaluation, selection and uses of educational software.

Foundations of Education (F, S)

13.0901-402 2 hrs. cr. Historical, philosophical and sociological aspects of American education. Emphasis on philosophical approaches to education theory and practice and application of the teaching-learning theory and practice.

Courses/Education

Methods of Teaching the Mentally Handicapped (F) 13.1006-403 3 hrs. cr. Designed to help the prospective or in-service teacher understand mental retardation and learn to work effectively with retarded learners. Includes appropriate curriculum, individualized program development and teaching strategies. Prerequisite: Educ 302 and Educ 324.

Methods of Teaching Children with Learning Disabilities (S)

13.1006-404

3 hrs. cr.
Designed for the prospective or in-service teacher
of learning disabled students. Diagnosis, evaluation, programming, instructional approaches,
instructional strategies and materials appropriate for use with learning disabled students. Prerequisite: Educ 302 and Educ 324.

Methods of Teaching Children with Behavioral Disorders (F)

13.1005-405
3 hrs. cr. Establishes a teaching rationale utilizing a precision individualized teaching strategy which enables the emotionally disturbed learner to profit more fully from school experiences. Prerequisite: Educ 302 and Educ 324.

Practicum in Child Study: Uses and Interpretation of Informal Observation Techniques (S) (Demand)

13.1204-406 2 hrs. cr. Methods of observation used in the early childhood classroom. In addition to one hour of lecture per week, students will be assigned to a public school prekindergarten setting for 48 clock hours in order to use systematic observation techniques which will culminate in an oral and written case study report. Prerequisites: Psy 100 and 300, Educ 316, Educ 317, Educ 318 and Educ

Diagnostic and Prescriptive Teaching (S)

13.0301-407

3 hrs. cr.
Use of formal test results to design specific level
tests necessary to develop individualized
cational plans (IEP's) for handicapped or
handicapped learners. Prerequisites: Educ 302
and Educ 324. Educ 474 is strongly recommended.

The Young At-Risk Child: Screening, Assessment and Prescription (S) (Demand)

13.1204-408 5 hrs. cr. An in-depth study of standardized observation and testing tools and screening instruments. Supervised administration, scoring and interpretation of these assessments in early childhood education, as well as a case report are major requirements of this course. Prescriptive instruction based on information from the above, provides a culminating activity for this holistic approach. Prerequisites: Educ 316, Educ 317, Educ 318, Educ 319, Psy 310.

Topics in Early Childhood Education (S) (Demand)
13.1204-409
2 hrs. cr.

A senior level course designed to allow the early childhood student to assimilate and to synthesize the information gained from all other early childhood education courses. Provides the student with an in-depth study of current research in the field. A senior thesis course that requires a major paper based on student generated research, the findings of which are to be reported orally to interested faculty and fellow students. Prerequisites: Educ 316, Educ 317, Educ 318, Educ 319, Educ 323, Educ 406 and Educ 408. May be taken concurrently with Educ 406 and Educ 408

Individualized Curriculum Development (F, S)

Designed for elementary and secondary education majors. Instructional programming for the individual student, strategies for individualizing and mastery learning, grouping for instruction, organizing a variety of learning activities and materials, instructional evaluation, home-schoolcommunity relations and comparing alternative educational systems. Prerequisite: Admission to teacher education.

Introduction to Counseling (F, S)

13.1101-420 3 hrs. cr. Survey of interpersonal communication skills, counseling philosophies, methods, principles and practices. Designed for the classroom teacher as well as the specialist in counseling or special educator. Intended for working with both students and parents.

Teaching Reading in Secondary Schools (F, S)

Research based and supported teaching/learning strategies utilized in effective lesson design in the content area classroom. Develops an awareness of the role of reading to content area classroom instruction. Presents strategies and materials utilized in diagnostic/prescriptive teaching.

Classroom Management (F, S)

13.1299-423

2 hrs. cr. Concepts, skills and models, such as behavior modification, for developing a personalized three-dimensional approach to behavior and classroom management. How to prevent discipline problems, what to do when a problem occurs and what to do to decrease the possibility of problems recurring. Approaches include behavior modification, assertive discipline, desist techniques, reality therapy and other management techniques. To be taken concurrently with Educ 329.

Language Development of Exceptional Children (F) 13.1012-430 3 hrs. cr.

Required for certification in special education and recommended for teachers of students focusing on early childhood education. Basic structures of language, normal sequence of language acquisition and characteristics of language disabilities. Strategies suggested for both assessing and remediating language delays or disorders.

Critical Issues in Education (F, S)

13.0401-432 2 hrs. cr. Exploration of current problems with special

regard to legal and professional role of school personnel, their relationship to federal and state governments and to local school districts; certification, salary schedules, retirement and other benefits, professional organizations for teachers, relationship with administration, pupils, parents and the community. Prerequisite: Admission to teacher education. Offered in the Professional Semester.

Utilizing Family and Community Resources for the Young Child (S)

13.1204-433 2 hrs. cr. Resource persons, funding agencies, medical services, special help agencies and job opportunities available to teachers of young children in the community.

Materials and Methods of Individualizing Instruction (S)

13.0301-435 3 hrs. cr. Concepts, methods and materials for implementation of individual instruction. Useful for those designing learning programs for exceptional children. Prerequisites: Psy 310 and Educ 329.

Student Teaching-Elementary (F, S)

13.1202-442 8 hrs. cr. Supervised participation on the elementary level in an assigned off-campus school site. The elementary student teaching experience is based on 50 full teaching days (10 weeks) and requires the student teacher to demonstrate his/her ability to be an entry-level, effective decision making teacher. Arrangements for placement are to be made in the semester preceding the actual student teaching block. Prerequisites: Please see Requirements for Admission to Student Teaching.

Student Teaching-Special Education (F, S)

13.1202-444 8 hrs. cr. Supervised teaching in a special education setting in an assigned off-campus site. Course assignments consist of 50 full teaching days (ten weeks) and require the students to demonstrate their ability to be entry-level effective decision making teachers. Arrangements for placement are to be made in the semester preceding the actual student teaching block. The student will be required to divide the 10 week experience into two segments: Five weeks at the elementary level and five weeks at secondary level. Prerequisite: Please see Requirements for Admission to Student Teaching.

Practicum in Special Education (F, S)

13.1202-446
3 hrs. cr. Clinical experience in special education settings with one of three exceptional populations; learning disabled (LD), mentally handicapped (MH) or behaviorally disordered (BD) learners. Must be preceded by the appropriate methods course for each of the three areas of exceptionalities. A practicum experience is required for each of the three areas of exceptionalities (LD,MH and BD). Prerequisites: Educ 302, Educ 324 and the appropriate methods course for each practicum taken, i.e., Educ 403, Educ 404 and/or Educ 405.

Courses/Psychology

Student Teaching-Secondary (F, S)

13.1205-462

4-8 hrs. cr. Supervised teaching on the secondary level in an assigned off-campus school site. The secondary school teaching experience is based on 50 full teaching days (ten weeks) and requires the student teacher to demonstrate his/her ability to be an entry-level, effective decision making teacher. Arrangements for placement are to made in the semester preceding the actual student teaching block. Prerequisites: Please see Requirements for Admission to Student Teaching.

Student Teaching-EL-SEC (K-12) (F, S)

13.1205-464 8 hrs. cr. Supervised teaching on the secondary and elementary levels in assigned off-campus school sites. The K-12 teaching experience is based on 50 full teaching days (ten weeks) and requires the student teacher to demonstrate his/her ability to be an entry-level, effective decision making teacher. The student will be required to divide the 10 week period into two segments: Five weeks at the elementary level and five weeks secondary level. Arrangements for placement are to be made in the semester preceding the actual student teaching block. Prerequisites: Please see Requirements for Admission to Student Teaching.

Diagnostic and Remedial Reading (F, S)

13.1315-470 3 hrs. cr. Prepares the beginning remedial reading teacher and the regular class teacher to deal with remedial reading problems. Emphasis on diagnosis of problems more clinical in nature with techniques, materials and management being stressed. Prerequisites: Educ 342, Educ 343.

Practicum in Diagnosis of Reading Difficulties (F) 13.1205-471 3 hrs. cr.

Practice of administering, interpreting and reporting of diagnostic test results of reading difficulties. Prerequisites: Educ 342 or Educ 422, Educ 343, Educ 470 and Educ 474 or Psy 471.

Practicum in Remediation of Reading Difficulties (S)

13.1315-472 3 hrs. cr. Practice of using and reporting results of remedial methods in a case study of reading difficulties. Prerequisites: Educ 342 or Educ 422, Educ 343, Educ 470, Educ 471.

Educational-Psychological Testing in Special Education (S)

13.0604-474

3 hrs. cr. Comprehensive study of the various psychoeducational assessment techniques for diagnosis of learning problems of exceptional children, including educational, intelligence and psychomotor. Emphasis on translating assessment data to remedial programs. (Same as Psy 474). Prerequisites: Educ 302, Psy 310.

Seminar in Problems of Education (Demand)

13.9999-498 1-3 hrs. cr. A weekly seminar for upper division majors.

Credit hours determined by the department each semester. Covers specialized knowledge and/or current research in the discipline. Topics vary by semester and situation. Prerequisite: Advanced standing and consent of department head.

Independent Study (F, S)

13.9999-499
1-3 hrs. cr.
Structured by the adviser with approval of department head. Prerequisite: Advanced standing in the major field and approval of adviser and department head.

Psychology (Psy)

General Psychology (F, S)

42.0101-100 3 hrs. cr. Introductory course stressing the importance of the psychological mechanisms underlying all human behavior. Satisfies the Core Curriculum requirement.

General Psychology-Honors (F)

42.0101-100 3 hrs. cr. Basically the same topics as general psychology above. Designed and specially taught for honors students. Other students permitted with consent of instructor.

Self-Awareness and Career Planning

42.0601-105

1 hr. cr.
Materials and methods to help students investigate their present lifestyles including concrete methods of decision making and goal setting. Concentrated career/vocational choice sessions will help students determine an appropriate career. Offered during the second half of each semester. No credit toward psychology major.

College Orientation (F, S)

42.9999-120

1 hr. cr. A requirement for all incoming freshmen. Provides a small group setting for open communication between students in an informal situation. Content focuses on practical knowledge necessary for academic survival, adviser assignment and current issues of concern. Regular course withdrawal procedures do not apply. No credit toward psychology major.

Psychology 201

42.9999-201

Theory and methods of telephone crisis line (hotline) paraprofessional functioning: interview skills, ethics, dealing with specific types of callers and problems, resource review and procedures and rules of Joplin Crisis Intervention, Inc. One hour lecture each week. Prerequisites: Sophomore standing and psychology major, or advance permission of instructor.

Psychology of Personal Adjustment (F)

42.9999-221 3 hrs. cr. Selected principles of adjustment, ways of improving adjustment and research of practical value. Some emphasis on assertion skills. Strongly recommended as a second course (following Psy 100) for psychology majors.

Special Topics in Psychology (Demand)

42.9999-298
1-3 hrs. cr.
Special topics in psychology not normally included in other courses. Prerequisites to be determined by the department.

Child Development (F, S)

42.0701-300 3 hrs. cr. Behavior and growth patterns of children from conception to puberty. Psychological findings are presented which are relevant to how children learn, solve problems and function in home and school environments. Prerequisite: Psy 100.

Adolescent Psychology (F, S)

42.0701-301 3 hrs. cr. Development of the attitudes, interests, problems and adjustment of the adolescent. A foundation for the proper evaluation of adolescent behavior. Prerequisite: Psy 100.

The Exceptional Child (F, S)

13.1001-302 2 hrs. cr. A series of awareness experiences which deal with the added complexities an exceptional child presents to a regular classroom teacher. Includes characteristics of the exceptional child, resources in the community and legislation which determines school policy. Prerequisite: Psy 300 or Psy 301.

Developmental Psychology (F, S)

42.0701-305

4 hrs. cr. Various aspects of human development from conception, infancy, childhood, transescence to adolescence will be examined, including, physical, emotional, social and cognitive development. Emphasis will be given to theoretical frameworks and their practical implications. Cross-cultural variety will be included wherever appropriate. Prerequisites: Psy 100. No credit will be given if Psy 300 or Psy 301 have been completed.

Educational Psychology (F, S)

13.0801-310 2-3 hrs. cr. Psychological problems involved in education and the practical application of psychological principles of teaching. Special emphasis on measurement, the nature of learning and the environmental influences of behavior. Prerequisite: Psy 300 or Psy 301.

Applied Statistics for the Behavioral and Natural Sciences (F, S)

42.1501-320 3 hrs. cr. Includes descriptive and inferential techniques. Emphasis on the analysis and interpretation of data. Prerequisites: Psy 100 and Math 110, 130 or 131.

Computers in the Behavioral Sciences (S)

42.1301-325 3 hrs. cr. Applications of computers in the behavioral sciences with an emphasis on statistical analysis, data collection and report generation. Prerequisite: Psy 320.

Courses/Physical Education

Experimental Psychology (F, S)

42.0801-330 5 hrs. cr. The research process is the foundation for knowledge in the field of psychology. Laboratory course that stresses the acquisition of basic skills in conceiving and carrying out research, as well as analyzing results and writing reports in a professionally acceptable manner. Prerequisite: Psy 325.

Social Psychology (F)

42.1601-341 3 hrs. cr. Introduction to the study of individuals' thoughts, feelings and behaviors as they are influenced by their social environment, including interpersonal, intragroup and intergroup influences. Prerequisite: Psy 100.

Introduction to Behavior Management (S)

42.9999-382

Techniques of modifying human behavior through principles developed by learning psychology. Emphasis on design and implementation of behavioral strategy in the laboratory as well as practical settings. Prerequisite: Psy 100.

Psychology of Sensation and Perception (S)

42.0801-411 3 hrs. cr. Includes classical and modern psychophysical techniques. The physiology of various sensory system, e.g. vision and audition, are examined in order to appreciate the nature of perception. Prerequisite: Psy 100.

Measurement and Evaluation in Education and Psychology (F, S)

42.1301-412 2-3 hrs. cr. Theory and problems of measurement and evaluation. Practice in analyzing and interpreting test results and in preparing test items of various types. Prerequisite: Psy 310 or consent of instructor.

Theories of Personality (S)

42.1001-422 3 hrs. cr. Survey of major contemporary theories of personality, issues of personality assessment and current research. Prerequisite: Psy 100 and junior standing.

Abnormal Psychology (S)

42.9999-432

3 hrs. cr.
Recognition and classification of the systems of
mental disorders, specifying causes and possible therapeutic techniques. Extensive use of the
American Psychiatric Association's "Diagnostic
and Statistical Manual of Mental Disorders."
Prerequisite: 7 hours of psychology or permission of instructor.

Clinical Psychology (F)

42.0201-435 3 hrs. cr. Survey of history, current methods, guild issues and future developments. Seminar format with considerable student participation. Prerequisites: Junior standing and 15 hours of psychology.

Physiological Psychology (F)

42.1101-442 3 hrs. cr. Structure and function of the nervous system

from the individual neuron to the behavior of the organism. The biological basis of movement, sleep, homeostasis, sexual behavior, emotion, learning, language and abnormal behavior will be examined from an ontogenetic and phylogenetic perspective. Prerequisite: Psy 100.

Psychology of Human Resources (S)

42.0301.450 3 hrs.cr. An interdisciplinary approach to traditional areas of human resource management/organizational psychology, including group interaction, communication, interviewing, compensation and benefits and legal environment. Experimental and theoretical methods will be used. Prerequisite: Psy 100 or MM 350 or permission of instructor.

Learning, Memory and Cognition (S)

42.0301-451 3 hrs. cr. Survey of the major principles and current research on such topics as classical conditioning, operant conditioning, memory systems, attentional processes, artificial intelligence and psychology-law. Prerequisite: Psy 330.

History and Systems of Psychology (F)

42.9999-452 3 hrs. cr. Historical antecedents and their effects on contemporary scientific psychology. Prerequisite: Psy 330 or consent of instructor.

Individual Testing (F)

42.1301-471 3 hrs. cr. Practice in the administration and interpretation of individually administered intelligence tests, including the Stanford Binet and the three Wechsler tests. Prerequisite: Psy 320 or Psy 412. Offered only by request. Contact the department head.

Educational-Psychological Testing (S)

3 hrs. cr. Psycho-educational assessment techniques, including educational, intellectual and psychomotor. Emphasis on translating assessment data to remedial programs.

Senior Seminar (F)

42.9999-480 2 hrs. cr. For senior psychology majors. Information and experiences helpful in making decisions about and preparing for careers, emphasizing preparation for either graduate school or baccalaureate level employment are presented. Students become familiar with the professional interests and activities of the psychology department faculty in preparation for selecting senior thesis topics.

Senior Thesis (S)

42.9999-481 2 hrs. cr. With a faculty supervisor the student designs and conducts a research project resulting in a written thesis and an oral presentation. Prerequisite: Psy 480.

Seminar in Psychology (Demand)

42.9999-498
1-3 hrs. cr.
Specialized knowledge and/or current research in psychology. Topics vary by interest and de-

mand. Number of weekly meetings equal to credit hours granted. Prerequisite: Junior-senior standing and consent of instructor. Some seminars are marked "(H)" in the class schedule and are intended for honors students. Other students may enroll in honors seminars with consent of instructor.

Independent Study (Demand)

42.999-499
1-3 hrs. cr.
Course structured by adviser with approval of department head. Prerequisite: Advanced standing in major field. Registration must be approved by adviser and department head.

Health, Physical Education and Recreation (HPER)

Individual Physical Education (F)

13.1314-100 1 hr. cr. Adapted physical activity based on needs and ability of student. Students with certified medical disabilities may meet Core Curriculum requirement for physical education activity by completing this course.

Introduction to Physical Activities (F, S)

13.1314-101 1 hr. cr. Fundamental skills in individual or dual physical activities. Required course for Core Curriculum. Course meets twice each week.

Lifetime Wellness (F, S)

13.1314-103 2 hrs. cr. Contemporary information about the beneficial effects of a positive health life-style and how to implement and live such a life-style. Required course for Core Curriculum.

Rules and Officiating of Team Sports (F, S)

13.1314.150 3 hrs. cr. Knowledge and skills for officiating basketball, volleyball, softball, baseball and football; officiating laboratory required in some areas. Open to all students.

Personal Health (F)

13.1307-160 2 hrs. cr. Health problems of the individual, body mechanics, nutrition, drugs and drug abuse, sex hygiene, mental hygiene and the cause and prevention of common diseases. Not recommended for elementary education majors.

First Aid (S)

13.1304-220 2 hrs. cr. Designed to complete the standard course of the American Red Cross in First Aid.

Varsity Activities: Cheerleading (F, S)

13.1314-222 1 hr. cr. Practice for cheers, chants and stunts. Open only to MSSC cheerleaders; class meets twice a week.

Fundamentals of Physical Education Activities I (F) 13.1314-251 3 hrs. cr.

Study of the skills and understanding of selected activities: games, sports and individual

Courses/Physical Education

activities commonly found in the school program. Students must demonstrate minimum levels of proficiency in various activities or may be required to enroll in an activity course in any area of insufficiency. Enrollment restricted to physical education majors and minors. Prerequisite: 30 hrs.

Fundamentals of Physical Education Activities II (S)

Skills and understanding of selected activities: sports, gymnastics and tumbling. Students are required to demonstrate minimum levels of proficiency in the various activities or may be required to enroll in an activity course in any area of insufficiency. Enrollment restricted to physical education majors and minors. Prerequisite: 30 hrs.

Theory and Practice of Dance and Exercise

13.1314-255

2 hrs. cr.
Provides the prospective secondary physical education major with fundamentals necessary to teach areas of dance and exercise. Performance in the basic fundamental rhythms, aerobic dance, exercises and choreographing rhythmic routines are included. Prerequisite: 30 hrs.

The Elementary School Physical Education Program (F)

13.1314-310 3 hrs. cr. Procedures and techniques for planning the curriculum for elementary school physical education. Prerequisite: HPER 252, physical education majors only.

Physical Education for the Elementary School (F, S)

Methods and materials needed for directing games, skills, rhythm and stunts for the elementary school child. Designed for students who are candidates for the elementary level teaching certificates.

Teaching Elementary School Physical Education (S)

13.1314-312 3 hrs. cr. Analysis of basic movement patterns, basic skills, rhythmic and game activities with detailed explanations of presentation to the elementary school child. Prerequisite: HPER 310 physical education majors only.

Theory and Analysis of Selected Team Sports (F) 13.1314-321 3 hrs. cr.

Professional course for physical education teachers with emphasis on organizing and performing of selected team sports. Prerequisite: HPER 252.

Internship in Physical Therapy Procedures (F, S)

13.1314-325

Observation and participation in physical therapy procedures for patients in a medical facility. Prerequisites: One year of athletic training work, junior standing and approval of departmental committee.

Rhythmic Form and Analysis (F)

13.1314-332 2 hrs. cr. Analysis of dance forms showing how complex

music and dance forms are evolved. Prerequisite: HPER 252.

History and Philosophy of Physical Education (S) 13.1314-335 2 hrs. cr.

Changing role of physical education as indicated by its historical past and as evidenced through the influence of the various philosophies. Prerequisite: HPER 252 or currently enrolled in 252.

Motor Learning in Physical Education (F)

13.1314-340
3 hrs. cr. Study of motor learning to provide the teacher with the background necessary for identification of physical, mental, social and emotional development of children and their effect on behavior movement. Recommended for teachers working with children with special problems. Prerequisite: HPER 310 or 311.

Kinesiological Approach to Movement (S)

13.1314-342 3 hrs. cr. A mechanical and kinesiological approach to the movement of individuals in various activities. Prerequisite: Bio 306 or equivalent.

Tests and Measurements in Physical Education (S) 13.1314.345 2 hrs. cr.

Designed to train the prospective physical education teacher in the techniques of measuring and evaluating performance. Includes preparation and administration of skill and written tests along with statistical procedures for data analysis. Prerequisite: Psy 310.

Theory of Basketball (S)

13.1314-350 2 hrs. cr. Organization and management of the secondary school basketball program. Systems of offense and defense in basketball. Study of rules, training schedule, discussion of problems arising during training and regular playing season. Prerequisite: 60 hrs.

Theory of Football (F)

13.1314-351 2 hrs. cr. Attention to team play, systems of offense and defense, field strategy, discussion of rules, training and equipment. Prerequisite: 60 hrs.

Theory of Track and Field (S)

13.1314-352 2 hrs. cr. Organization and administration of meets, coaching, physical conditioning and training for each event in track and field programs. Prerequisite: 60 hrs.

Theory of Coaching Soccer

13.1314-353

1 hr. cr.
Organization and management of soccer competition. Systems of offense and defense, rules, strategy and fundamentals of soccer are studied. Prerequisite: 60 hrs.

Theory of Coaching Volleyball

13.1314-354 1 hr. cr. Organization and management of volleyball competition. Offensive and defensive systems, rules, strategy, drills and fundamentals are studied. Prerequisite: 60 hrs.

Theory of Baseball (F)

13.1314-360 2 hrs. cr. Organization and management of a school baseball program including individual techniques, team play and problems in coaching of baseball. Prerequisite: 60 hrs.

Socio-Psychological Aspects of Physical Education (F, S)

13.1314-365 2 hrs. cr. Behavior exhibited in the learning of skills and physical performance related to sociological and psychological concepts connected with the demands of physical activities. Group and individual activities and conflicts in sport are analyzed; the effect of sports on society is also studied. Prerequisite: HPER 252.

School Health Education (F, S)

13.1307-370

3 hrs. cr. Study of the content, facilities and equipment needed for teaching school health and safety. Should be taken by all elementary education majors in the place of HPER 160. Separate sections on health and nutrition programs for children for elementary majors. Prerequisite: 5 hrs. biology.

Physiology of Exercise (F, S)

13.1314-431 2 hrs. cr. Course for students already having prerequisite knowledge of human physiology. Emphasis on human responses to varying levels of physiological conditioning and the environment within which the exercise is taken. Includes physiological principles to better understand human physiology under exercise stress. Prerequisite: Bio 306.

Prevention and Care of Injuries (F, S)

13.1314-450 3 hrs. cr. Designed to provide knowledge related to prevention, care and rehabilitation of injuries. Laboratory experiences included. Prerequisite: HPER 342.

Advanced Athletic Training (S)

13.1314-451 2 hrs. cr. A study of professional relationships, pharmacology, special problems in athletics, exercise programs and specific injuries to the upper and lower extremities. Practical learning experiences included. Prerequisite: HPER 450.

Administration of Physical Education (F, S)

13.1314-470 2 hrs. cr.
Organization and management of health and physical education in schools, scheduling, personnel, curriculum, finances, equipment and facilities. Study of intramural program. Prerequisite: 20 hrs. HPER.

Seminar in Health or Physical Education (Demand) 13.1314-498 1-3 hrs. cr.

A thorough study of an advanced problem in health or physical education for selected stu-

Courses/Physical Education

dents. Prerequisite: Senior standing, permission of department head.

Independent Study (F, S)

13.1314-499
1-3 hrs. cr.
Research of a problem or field study relating to
physical education; material, content, credit and
schedule to be arranged by the department
head. Prerequisite: Senior standing, 3.0 GPA in

major and permission of department head.

 13.1314-172 Varsity Track and Field (S)
 1

 13.1314-180 Varsity Golf (S)
 1

 13.1314-182 Varsity Baseball (S)
 1

 13.1314-183 Varsity Softball (S)
 1

 13.1314-191 Varsity Soccer (F)
 1

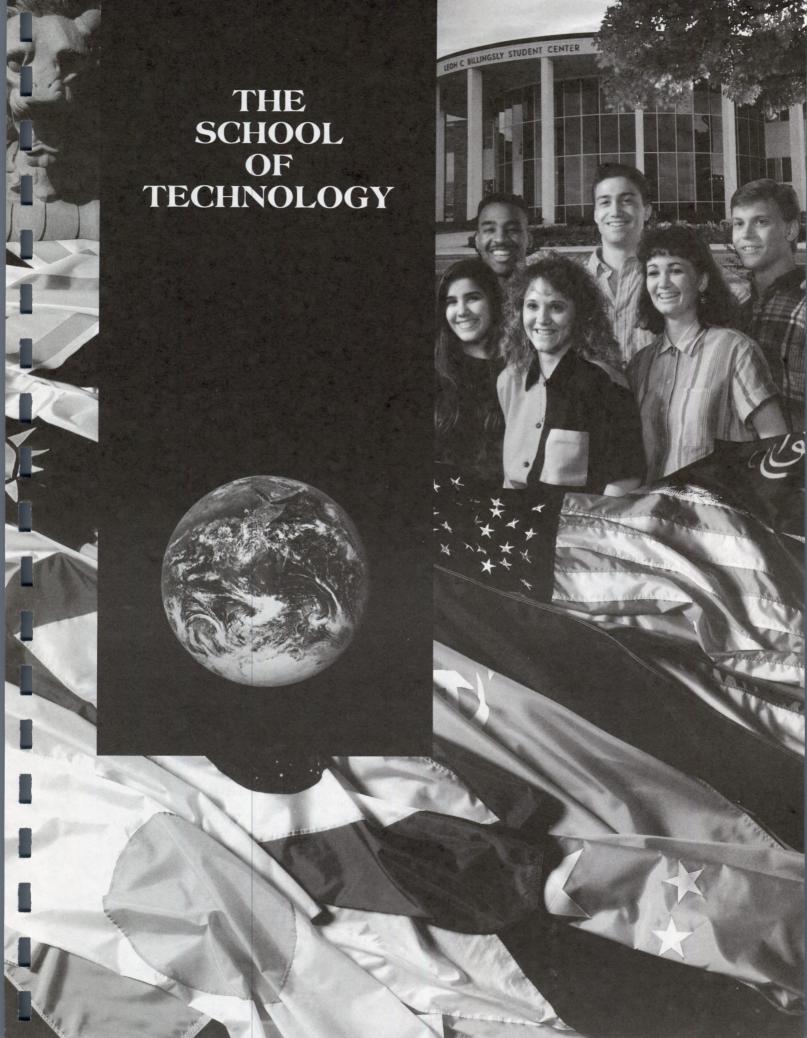
 13.1314-192 Varsity Tennis (S)
 1

 13.1314-250 Dance and Exercise (S)
 1

 13.1314-261 Elementary Swimming (F)
 1

 13.1314-292 Fitness and Weight Training (F)
 1

Courses Pugalical Caroanies



School of Technology

School Dean

lames K. Maupin Donald L. Seneker, Assistant Dean Police Academy 113, 625-9328

Degrees and Majors

Bachelor of Science

Computer Information Science Criminal Justice Administration **Environmental Health Technology** Management Technology (in conjunction with the School of Business)

Medical Technology

Nursing

Associate of Science

Computer Aided Drafting and Design Computer Analysis Computer Assisted Manufacturing Technology Computer Programming Dental Hygiene **Environmental Health Technology** Law Enforcement Nursing Pre-engineering Radiologic Technology

Associate of Arts (Preprofessional) General (Paramedic)

Prepharmacy

Certificate (one year)

Computer Science and Information Systems

Certificate (less than 30 hours, offered through Continuing Education)

Basic Police Recruit Emergency Medical Technician Emergency Medical Technician-Paramedic

Options and Emphases:

Computer Information Science As a Second Teaching Field Computer Science Information Systems

Minors: (See departments)

Computer Information Systems Computer Science Criminal Justice Administration Military Science

Role

The School of Technology is one of the four major instructional entities of Missouri Southern. As such, it offers quality instruction by and under, the leadership of professional educators who also have the advantage of a background of actual work experience in business, industry, health care and government. This instruction is further enhanced by utilizing qualified individuals from business and the professions in the community as guest lecturers and parttime instructors.

Although the courses offered by the departments of the School of Technology in the various curricula are usually specifically career oriented toward a specialized field, the staff of these departments recognize the necessity of providing an understanding of the relationships between careers and society; therefore, courses from the fine arts, humanities and natural sciences, as well as courses to refine a student's ability to read, write, speak and think, are a required part of each curriculum. As a result, the students majoring in the various curricula in the School of Technology are an integral part of the entire student body.

All courses offered in the School of Technology are designed to provide students with the background or some portion of the background, to enable them to enter the employment field and to meet requirements imposed by any certifying and licensing examinations that may be required in the field.

The School of Technology also recognizes that in many respects the community is also a classroom. Therefore, a number of curricula include courses that are offered by other educational agencies. In some courses, area facilities are used as laboratory resources with students utilizing them under the direct supervision of regular college instructional personnel.

The School of Technology offers curricula leading to the B.S., A.S. and A.A. degrees and to one-year certificates. Programs of shorter duration required for licensure or certification also are offered, often in coniunction with the Division of Continuing Education. In addition, numerous courses and workshops are offered to meet specific and often rapidly emerging demands of business, industry and public service.

All departments work closely with advisery committees made up of persons from business, industry, government and the professions. Input from the advisery committees aids the faculty of the various departments in maintaining relevancy of course and curriculum content and identifying special needs that can be addressed through continuing education programs.

Goals

The goals of the School of Technology are:

1. to provide opportunities for students to prepare for a broad range of established and emerging careers;

2. to maintain and develop curricula which provide the opportunity for students to obtain the background in liberal arts and sciences so they may aptheir heritage preciate contemporary society and become a contributing member of their society;

to provide programs in the most cost effective method possible, that are cognizant of contemporary requirements of career fields and which provide best available preparation for emerging requirements;

4. to provide opportunities and encouragement for faculty and staff to remain current and conduct research in their respective disciplines;

5. to provide instructional facilities and equipment essential to the maintenance of academically excellent instruc-

6. to provide a variety of supportive functions that serve a variety of area needs;

7. to offer quality programs and in areas where required, maintain program content necessary for special accredita-

8. to offer a variety of continuing education programs to meet special needs and demands:

to encourage faculty to provide consultation services and otherwise serve as resources for the area;

to advise people, including students and potential students, regarding knowledge, skills and abilities required to enter and succeed in various career

11. to assist faculty to meet and maintain eligibility for special certification required in numerous programs.

Aviation

The Aviation Program is offered in affiliation with the Mizzou Aviation Company of Joplin, Mo.

For additional information contact:

Mr. James K. Maupin Office: 113 Police Academy

Phone: 625-9328

OR

Mr. Donald L. Seneker Office: 101 Police Academy

Phone: 625-9519

Computer Information Science

Computer Information Science

Matthews Hall 223, 625-9383

Faculty Earney - Head, Herr, Kelley, Kirchner, Mays, Oakes, Tunnell

Bachelor of Science

The increasing use of computers in business, government, science, industry, education and the home has created a broad spectrum of opportunities for employment, service or personal use of computing machines and techniques. To assist the graduate in exploiting these opportunities the following curricula are offered; A bachelor of science in computer information science has two options, one is oriented toward information systems (Curriculum Code 5105); the other is oriented toward computer science (Curriculum Code 5106). There is an opportunity to augment the curriculum to the individual's liking through the judicious selection of computer and/or professional electives.

Bachelor of Science in CIS

Information Systems Option Core Curriculum Requirements

(page 35)
Math 131 Finite Math (or Math 130, College Algebra which may substitute for Finite Mathematics) should be taken early as one is a prerequisite for Accounting and a co-

	00, 0110 0110 100 1011011 0011 1		
is a prerequ	uisite for Accounting and a	1	co-
requisite fo	r Programming I.		
Computer (Core		37
Comp 110	Programming I (Pascal)	3	
Comp 210	Block Structured	2	
	Programming	3	
Comp 234	Business Data Processing	4	
	Techniques (COBOL)	3	
Comp 240	Statistical Computer		
	Applications	3	
Comp 302	Systems Concepts and		
	Data Comm	3	
CIS 305	Microcomputer	9	
	Applications	3	
CIS 320	Operations Modeling	3	
CIS 334	Advanced Structured	9	
	COBOL	3	
CIS 350	Data Structures	3	
CIS 400	Computer Colloquium (1		
	cr. hr.)	1	
CIS 410	Systems Analysis and		
	Design	3	
CIS 425	Database Design and		

Implementation

CIS 450	Operating Systems	
	Software	3
Professiona	al Concentration	18
Acct 201	Prin of Accounting I	3
Acct 202	Prin of Accounting II	3
Acct 325	Managerial Accounting	3
GB 321	Business Statistics	3
MM 350	Prin of Management	3
MM 441	Organizational Behavior	3

Professional Electives

May be selected from upper division computer information science or upper division business courses with consent of major adviser. Students considering pursuing a graduate degree, should consult their major adviser for recommendations in selection of courses that will satisfy prerequisites for the degree they seek.

General Electives

As needed to satisfy the academic requirement of 128 credit hours.

Suggested Order of Study

Bachelor of Science

Major Code 5105

Computer Information Science (Option I, Information Systems)

Freshman Year

Course		Hou
Comp 110	Programming I	
Math 131	Finite Math	
CORE	[Eng 101 Comp I (WI)]	
CORE	[Psy 100 Psychology]	
CORE	[Psy 120 College Orientation]	
CORE	[HPER 101 Physical Activity]	
CORE	[HPER 103 Lifetime Wellness]	2910

2nd Semester

Comp 210	Block Structured Prog
CORE	[Econ 180 Amer Econ System]
OR	
[Econ 201 &	& 202 Prin of Econ (2 semester)]
CORE	[Eng 102 Comp II (WI)]
CORE	[Bio 101 General Biology]
CIS 305	Microcomp Appl

Sophomore Year

ist semeste	CI
	Stat Comp Appl (WI)
Comp 234	Bus DP Tech (COBOL)
Acct 201	Prin of Accounting I
CORE	[Phys 100 Fund of Phys Sci]
CORE	

2nd	Sen	nester	
CIS	334	Adv	Stru

Comp 230 Rpt Prog Gen

Acct 202 CORE	Accounting II [PSc 120 Gov't: U.S., State	, Local]
GB 321	Business Statistics I	961 21 S
Junior Yea	pleamed gain many only and	15
1st Semes		
Acct 325	Managerial Acct	3
CORE	[Comm 100 Oral Comm]	3
CIS 320	Ops Modeling (WI)	The state

Professional Elective CORE [Hist 110 U.S. History]

GB 301

and Semes	ter
CIS 350	Data Structures
MM 350	Prin of Managemen
Comp 302	Syst & Data Comm
CIS 321	Interactive RPG
CORE	[Literature]

Business Law I

Senior Year

1st Semes	ter
CIS 410	Systems Anal & Des
CIS 450	Op Sys Software (WI)
CORE	[Hist 120 U.S. History]
MM 441	Org Behavior
Profession	al Elective

2nd Semester

3

CIS 425	Database Design & Implem			
CIS 400	Colloquium			
CIS 498	Seminar in CIS			
CORE	[Art 110 Art Appreciation]			
CORE	[GB 310 International Gov't]			
Professional Elective				

Bachelor of Science in CIS

Computer Science Option

Semester Hours

3

15

3 3 3

3

3

18

3

3

3

3

15

3

3

15

3

Core Curriculum Requirements

(page 35)	43
Math and physics below satisfy eight ad	ldi-
tional credit hrs. of Core Curriculum	re-
quirements.	

quillionic	•	
Computer (Core	43
Comp 110	Programming I (Pascal)	3
Comp 210	Block Structured	
	Programming	3
Comp 234	Business Data Processing	
	Techniques (COBOL)	3
Comp 240	Statistical Computer	
	Applications	3
CIS 320	Operations Modeling	3

CIS 330	Assembly Language	3
CIS 335	Programming in C	3
CIS 340	Computer Simulation	3
CIS 350	Data Structures	3
CIS 360	Computer Graphics	3
CIS 400	Computer Colloquium	1
CIS 425	Database Design and	

Implementation

Computer Science

	CIS 430	Introduction to Artificial		
		Intelligence	3	
	CIS 450	Operating Systems		
		Software	3	
	CIS 460	Programming Languages	3	
Professional Concentration 3				
	Math 150	Calculus I	5	
	Math 250	Calculus II	5	
	Math 260	Calculus III	5	
	Math 350	or 431 (Numerical		
		Analysis) Select 1	3	
	Phys 151	Elementary College Physic	CS	
			5	

Professional Electives

15 cr. hrs. of professional electives (e.g., comp info sci. courses or upper div. science or math). (Math 310 or 361 are suggested.) Students considering pursuing a graduate degree, should consult their major adviser for recommendations in selection of courses that will satisfy prerequisites for the degree they seek.

General Electives

As needed to satisfy the academic requirement of 128 credit hours.

Suggested Order of Study

Bachelor of Science Major Code 5106 Computer Information Science (Option II, **Computer Science**)

Freshman Year

1st Semeste	er	
Course		Hours
Comp 110	Programming I	3
Math 150	Calculus 1	5
CORE	[Eng 101 Comp I (WI)	3
CORE	[Psy 100 Psychology]	3
CORE	[HPER 103 Wellness]	2
CORE	[Psy 120 College Orientation]	1
		17

2nd Semester

Comp 210	Blk Struc Prog
Math 250	Calc II
CORE	[Eng 102 Comp II (WI)]
CORE	[Bio 101 General Biology]
CORE	[HPER 101 Physical Activity]

Sophomore Year

Sopilomore	icai	
1st semeste	er	
	Bus DP Tech (COBOL)	3
Math 260	Calc III	5
Phys 151	College Physics	5
CORE	[Comm 100 Oral Comm]	3
		16

zna semester		
Comp 240	Stat Comp Appl (WI)	
CIS 330	Assembler	
CIS 350	Data Structures	
CORE	[Art 110 Art Appreciation]	

[Hist 110 U.S. History]

Junior Year

CORE

ist Semest	er
CIS 335	Programming in C
CIS 340	Computer Simulation
CIS 320	Ops Modeling (WI)
CORE	[Hist 120 U.S. History]
CORE	[Econ 180 Am Econ Sys]
CORE	[Phil 201 Philosophy]

2nd Semester

CIS 360	Computer Graphics	3
CIS 425	Database Systems	3
Profession	nal Elective	3
CORE	[GB 310 International Gov't]	3
CORE	[PSc 120 Gov't: U.S., State, Loc	cal]
		3

Senior Year

	Intro to Al
CIS 450	Operating Sys (WI)
Professio	nal Elective
Professio	nal Elective
CORE	[Eng 261 Masterpieces]

2nd Semes	ster	
CIS 400	Colloquium	
CIS 460	Prog Languages	
Math 350	Numerical Analysis	
Professiona	al Elective	
Professiona	al Elective	
Elective		

Minor in CIS

A minor in either information systems or computer science may be earned in conjunction with a baccalaureate degree in another discipline. The requirement is that 21 hours be completed as follows:

Information Systems Minor

(Option I)

4

Comp 110	Programming I (Pascal)
Comp 230	Report Program Generator
	AND CIS 321 Interactive
	RPG/400
OR	

Comp 234 Bus. D. P. Techniques (COBOL) AND CIS 334 Advanced COBOL

CIS 410 Information Systems **Analysis** An additional 9 hours selected from the following:

Comp 200, 210, 230, 234, 302 CIS 305*, 321, 334, 330, 335, 350, 425, 450, 498

MM 237*, 337

3

3

3

3

3

3

18

15

3

3 16

*Only one of these two may be counted for credit toward minor.

Computer Science Minor

(Option II)

Comp 110	Programming I (Pascal)
Comp 210	Block Structured
	Programming
CIS 330	Assembly Language OR
	CIS 335 Programming in C
CIS 350	Data Structures
An addition	nal 9 hours selected from the
following:	
Comp 200,	234, 240, 301
CIS 305, 32	0, 321, 330, 334, 335, 340,
360, 410,	425, 430, 450, 460, 498
Math 350, 3	371, 431, 452

Associate of Science

Two associate of science (A.S.) degrees have the goals of preparing the student for entry-level employment in business, industry or government in the general field of computing. Both of these two-year programs require 25-26 hours of Core Curriculum (see Academic Regulations, page 35). Some Core Curriculum requirements can meet degree requirements of the department and/or course prerequisites (suggested below).

Computer Programming

Associate of Science, Information **Systems Emphasis**

Semester Hours

Core Curriculum Requirements	
(page 35)	25-26
Math 130, College Algebra OR	Math 131,
Finite Mathematics (preferred)	
taken early as one is a co-requi	
programming and accounting	

programmi	ing and accounting.	
Computer	Core	2
Comp 110	Programming I (Pascal)	3
Select 1:	Comp 120 (FOR), 115	
	(BAS), 200 (BAS), 230	
	(RPG), 234 (COBOL)	3
Comp 210	Block Structured	
	Programming	3

Criminal Justice

	Prin of Accounting I	3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	hours of a quirement Computer Comp 110	Core Programming I (Pascal) Block Structured Programming Statistical Computer Applications Comp 115, 120, 200, 230 234, CIS 330, 335 Assembly OR CIS 335 Programming in C Data Structures Elective	21 3 3 3
	e at least 64 total hours)		Math 150 Math 250	Calculus I (5) Calculus II (5)	
Associate of Emphasis Major Code	sted Order of Study f Science, Information Systems e 5103 Programming	y	Math 260 Physics Co Phys 151 Electives (to achieve	Calculus III (5) ore Elementary Physics I e at least 64 total hours)	5
Math 131 CORE CORE CORE	Programming I Finite Math [Eng 101 Comp I (WI) [PSc 120 U.S., State, Local] [Psy 120 College Orientation]	3 3 3 1	-		y
Acct 201	Blk Struc Prog Prin of Accounting I Program Language [Fine Art Elective] [Phys 100 or Bio 101]	3 16 3 3 3 4-5 16-17	Freshman Y 1st Semeste Course Comp 110 CORE Math 150 CORE CORE	er Programming I [Psy 120 College Orientation]	5 3 3
	Year Bus. D.P. Tech (COBOL) Stat Comp Appl (WI) Prin of Accounting II [Econ 180 Amer Econ System] [HPER 103 Lifetime Wellness] [Comm 100 Oral Comm]	3 3 3 3 2 3 17	2nd Semes Comp 210 Math 250 Phys 151 Computer	Block Structured Prog Calculus II Elementary Physics I	3 5 5 3 16
Comp 302 CIS 305 Acct 325 CIS Elective CORE	Syst & Data Comm Microcomputer Appl Managerial Acct Elective [HPER 101 Physical Activity]	3 3 3 3 3 1 16	CIS 335 CORE Math 260 CORE	er Stat Comp Appl (WI) Programming in C [Comm 100 Oral Comm] Calculus III [HPER 101 Physical Activity]	3 3 3 5 1
Compu	iting Analysis		CORE	[HPER 103 Lifetime Wellness]	17
	e of Science, Compute Emphasis Semester H		2nd Semes CIS 350 CORE	ter Data Structures [PSc 120 Gov't: U.S., State, L Assembly	3
CORO CHER	iculum	18	CIS	Flective	3

Comp xxx I	Elective	18
riculum th Curriculum ness is avai lead to a de	of Achievement: A 30-hou at provides elements of n, computer science and lable. This curriculum doe gree, but a certificate is awaege to acknowledge work	Core busi- es not arded
Eng 101	Comp I (WI)	3
Math 130	or higher	3
Comp 105	Intro to Microcomputer Use	3
OR		
CIS 305	Microcomputer	
	Applications	3
Comp 110	Programming I (Pascal)	3

Select two: Comp 115, 120, 230, 234 6 One additional 3, 4 or 5 cr. Core

One additional 3 cr. hr. course from student's area of application, interest,

Computer Science as a Second Teaching Field

Two additional 3 cr. hr. courses-

Curriculum course;

or emphasis;

General Elective.

The State Department of Elementary and Secondary Education does not yet certify computer science as a teaching field. Please contact us if interested in pursuing computer science certification. We will develop a program as soon as they define its requirements.

For additional information contact: Mr. Steve Earney Office: Matthews Hall 224A

Phone: 625-9383

Criminal Justice Administration

Police Academy 102, 625-9302

Faculty Spurlin - Director, Mosher, Richards, Seneker, Terry, Whittle, Williams, Wolf

The department offers two degrees, the bachelor of science in criminal justice administration and the associate of science in law enforcement. Since many of the jobs in these fields have special background and physical requirements, students considering one of these majors are required to schedule an interview with the director of the programs before enrolling.

The criminal justice activities of the Col-

Criminal Justice

lege are a vital and working part of the law enforcement effort in Southwest Missouri and adjacent states. The Regional Criminalistics Laboratory is housed in the Police Academy building and actual evidence is evaluated by the criminalists there who testify in court as expert witnesses as needed. Associated with the crime lab, a complete photographic laboratory, with both automated and color equipment, serves not only for student use, but also to process crime scene and "mug shot" photos for area police and sheriffs. Most of the College's instructional photography support is also done in this lab.

Missouri law requires new officers to obtain "basic training" in a certified "Regional Police Academy." Missouri Southern operates the regional academy for this portion of Missouri and many students choose to take their "Police Basic Training" at the Academy while attending college, to make them even more employable upon graduation.

Visitors to the modern Mills Anderson Police Academy building are usually impressed by the constant and varied activities going on there. College students mingle in classes and on breaks with working law enforcement officers from the community, paramedics, emergency medical technicians, firefighters and others taking training in the building.

Another unusual feature of the building is the modern indoor firearms range in the basement, where police officers, students, ROTC cadets and others are introduced to weapons skills under the guidance of qualified range masters. And, while there are other criminal justice programs in the nation, this one is perhaps unique in the combination of the many "real world" activities going on with which the College serves the community in a practical sense. This works to the advantage of the preservice college student who is able to take advantage of the facilities and expertise of the faculty and staff working at these important jobs. Missouri Southern's graduates generally return for special seminars and training to keep them updated on recent changes in technology and legal subjects. The Academy is a busy place with interested and challenged students working with experienced and dedicated staff.

The B.S. in criminal justice administration is designed for persons planning careers in law enforcement, juvenile justice, correc-

tions, probation and parole, private or industrial security, federal investigative agencies and related positions and for Military Police officers (when combined with the ROTC program). Many of these positions have requirements relating to physical condition and integrity of personal background with which the student should become familiar.

The College also offers the associate of science in law enforcement (page 145).

Bachelor of Science in Criminal Justice Administration

Semester Hours

	Semester i	IOU	113
Core Curri	culum Requirements		
(page 35)			51
Criminal Ju	stice Requirements		25
LE 100	Introduction to Law		
	Enforcement	3	
LE 110	Police Organization and		
	Administration	2	
LE 150	Interview and Report		
	Writing	2	
LE 210	Criminal Procedures	3	
LE 250	Criminal Law	3	
LE 290	Police Supervision and		
	Management	3	
	, i a i a germent	_	16
Select one	from the following:		
CIAd 230	Introduction to Security	3	
CJAd 325	Physical Security	3	
CIAd 330	Loss Prevention	3	
_,			3
Select one	from the following:		9
CJAd 320		3	
CJAd 412	Correctional Practices	3	
,			3
Select one	from the following:		9
CJAd 410		3	
CJAd 411	Juvenile Corrections	3	

The student must also select a minimum of 21 credit hours from the following list of major course electives:

LE 180	Basic Police Academy*	6
LE 200	Criminal Investigation I	3
LE 298	Special Topics*	1-8
CJAd 230	Introduction to Security	3
CJAd 210	Basic Photography	3
CJAd 325	Physical Security*	3
CJAd 260	Legal & Technical Aspec	ts
	of Firearms	3
CJAd 300	Criminal Investigation II	3
CJAd 310	Traffic Accident Invest &	
	Control	3
CIAd 320	Probation and Parole*	3

CJAd 330	Loss Prevention	
	Techniques*	3
CJAd 431	Administration of Securit	y
	Systems*	3
CJAd 340	Basic Color Photography	*
	A PARIS OF THE STATE OF THE STA	3
CJAd 350	Fish and Game	
	Enforcement	3
CJAd 400	Homicide Investigation*	3
CJAd 410	Juvenile Procedures*	3
CJAd 411	Juvenile Corrections*	3
CJAd 412	Correctional Practices	3
CJAd 450	Criminal Evidence*	3
CJAd 490	Internship in Criminal	
	Justice Administration*	1-8
CJAd 498	Seminar in Criminal Justi	ice
	Administration*	1-3
CJAd 499	Independent Study*	1-3
		1

*See course descriptions for prerequisites.

The major in criminal justice administration also requires the student to complete 15 hours of classwork in the supportive area:

Soc 110	Introduction to Sociology		
		3	
Sociology	Elective	3	
	General Psychology	3	
Psycholog	y Elective	3	
Comp 105	Intro to Micro Use	3	

General electives selected with adviser approval among which must be sufficient "upper division" courses (courses numbered at the 300 or 400 level) to complete the College's requirement for a minimum 40 upper division hours. A minor is highly recommended.

Minor in Criminal Justice Administration

128

The minor consists of 18 hours of course work which includes: LE 100 Introduction to Law Enforcement, LE 210 Criminal Procedures, LE 250 Criminal Law and nine additional hours of LE or CJAd courses, six of which must be upper division.

Suggested Order of Study

Bachelor of Science Degree Major Code 2105 Criminal Justice Administration Major

Freshman Year
1st Semester
Course Hours
LE 100 Intro to Law Enforcement 3

Dental Hygiene

LE 110 Police Organization and Administration

CORE [Eng 101 Comp 1]

Comp 105 Intro to Micro Use

CORE [Comm 100 Oral Comm]

CORE [Psy 120 College Orientation]

CORE [HPER 101 Physical Activity]

2nd Semester LE 150 Inte

LE 150 Interview and Report Writing
CORE [Eng 102]
CJAd Required course
Math 110 Intro College Math, or higher
CORE [Bio 101 General Biology]
CORE [HPER 103 Lifetime Wellness]

Sophomore Year

1st Semester
LE 210 Criminal Procedures
CORE [Hist 110 U.S. History]
CORE [Phys 100 Fund of Phys Sci]
CORE [Soc 110 Intro to Sociology]
CJAd Required Course

2nd Semester

LE 250 Criminal Law
LE 290 Police Supervision and
Management
Psy 100 [General Psychology]
CORE [Econ 180 Amer Econ System]
Elective [A minor is suggested]
CORE [Literature]

Junior Year 1st Semester

CJAd Required Course
CORE Elective [International Studies]
Soc Elective [Supportive Area]
CORE PSc 120 Gov't: U.S., State, Local
CORE Elective [Fine Art]

2nd Semester

CJAd Elective
CORE [Fine Art]
Psy Elective Supportive Area
CORE [Hist 120 U.S. History]
Elective [A minor is suggested]

Senior Year 1st Semester

CJAd Elective CJAd Elective CJAd Elective

Elective [A minor is suggested] Elective [A minor is suggested]

2nd Semester
CJAd Elective
CJAd Elective
CJAd Elective

Elective [A minor is suggested]
Elective [A minor is suggested]

Department Recommendations
 All electives must be approved by a CJAd adviser prior to enrollment.

15

For additional information contact: Jack G. Spurlin

Office: 103 Police Academy

Phone: 625-9651

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Dental Hygiene

Technology Building 101, 625-9379

Faculty Scorse - Director, Crnic, Karst, White

The dental hygienist is a dynamic health care professional who is the only member of the dental health team, other than the dentist, licensed to provide direct care to the patient. The diverse duties of the dental hygienist are rewarding and include oral prophylaxis (cleaning); exposing, processing and mounting radiographs; collecting and evaluating medical history information; performing head and neck screening examinations; and applying agents for the prevention of decay. Other important and challenging functions include assessing the condition of the periodontium (supporting structures of the teeth) and providing periodontal (gum) therapy including root planing and curettage, applying desensitizing and antimicrobial agents and administering local infiltration anesthesia and nitrous oxide/oxygen analgesia. The dental hygienist also acts as a dental health educator and is responsible for teaching patients to prevent dental disease and for providing nutritional counseling.

Dental hygiene employment opportunities are numerous and vary greatly. They include general practice and specialty dental offices; federal, state, county and city health clinics; public schools; hospitals; dental schools; industrial clinics; the armed services; and research institutions.

Missouri Southern offers an associate of science degree in dental hygiene. Upon satisfactory completion, graduates are eligible to take the National Board Examination and practical examinations required for licensure in Missouri and other states. This program is accredited by the American Dental Association.

Admission to Missouri Southern does not

automatically grant admission to the dental hygiene program. In addition to meeting admission requirements for the College, candidates must apply for admission to the department of dental hygiene prior to April 1. Applications are reviewed by the Selection Committee for Dental Hygiene and consideration is given to demonstrated scholastic ability and test scores, references and results of a personal interview with the dental hygiene faculty. Applicants are encouraged to submit the necessary information by March 1 so that interview appointments can be scheduled for the middle of March.

Evidence of satisfactory completion of the prerequisites, which include general zoology, intermediate algebra (or higher math) and English composition, should be presented. Individuals may be accepted if they have not completed these prerequisites; however, admission is contingent upon the completion of these courses with a "C" or above during the summer prior to entrance into the program.

Enrollment is limited and all applicants are admitted contingent upon the completion of physical and dental examinations and the rendering of an acceptable health status. Students are admitted to the dental hygiene program only in the fall of each year.

Interested individuals are encouraged to contact the Director of Dental Hygiene for more specific information regarding admissions criteria.

In addition to established fees for all college students, the following are minimum costs incurred by dental hygiene students: \$600 for uniforms, safety glasses, gloves, books and graduation pins; \$800 for instruments; approximately \$600 for licensure exams which will vary depending on state(s) in which license is desired; approximately \$60 for ADHA student membership dues and liability insurance; and variable expenses for transportation to off campus clinical training sites and meals.

The associate of science in dental hygiene requires a minimum of 78 credit hours in addition to prerequisite courses. All courses in the suggested order of study must be completed in the prescribed sequence. Course grades of "C" or above in dental hygiene and supporting science courses are necessary for retention in the dental hygiene program.

Drafting and Design

Associate of Science Degree

Daniel Ulveiane

in Dent	tal Hygiene			
Market Barrier	Semester H	lours		
	culum Requirements	25		
(page 35)	atisfied by propagatisites)	25		
	atisfied by prerequisites) giene Requirements	61		
DH 101	Fundamentals of Dental	01		
DI1 101	Hygiene I	4		
DH 102	Fundamentals of Dental			
	Hygiene II*	4		
DH 140	Dental Morphology	1		
DH 150	Oral Histology and			
	Embryology	3		
DH 160	Dental Radiology	2		
DH 190	Clinical Dental Hygiene I			
DILLOGO	B . III M. El .:	3		
DH 200	Dental Health Education	3		
DH 210	Perio-Pathology	3		
DH 220 DH 290	Dental Materials Clinical Dental Hygiene I			
DI1 230	Cililical Derital Tryglerie I	5		
DH 310	Nutrition	2		
DH 320	Pharmacology	2		
DH 330	Ethics and Community	State !		
	Dentistry*	3		
DH 390	Clinical Dental Hygiene			
	111*	5 5		
Bio 231	Medical Microbiology*	5		
Bio 240	Radiation Biology*	3		
Bio 306	Human Physiology and	_		
Ch 100	Anatomy*	5		
Chem 100	Introductory Chemistry*	86		
*See cours	se descriptions for	00		
prerequisit				
prerequisit				
Sugges	ted Order of Stud			
Sugges	ted Order of Stud	y		
Associate of				
Major Code				
Dental Hygi	ене мајог			
Prequisites	C171			
	General Zoology [Eng 101 Comp I]	4 3		
	Intermediate Algebra	3		
	Math Course)			
Freshman Ye	ear			
Fall Semeste	Fall Semester			
Course		Hours		
DH 101	Fundamentals of Dental Hygie	ene I		
DH 140	Dental Morphology	1		
DUITE	Onel Histoles and Full I			

DH 160 DH 220 DH 310 Bio 231 Bio 240	Dental Radiology Dental Materials Nutrition Medical Microbiology Radiation Biology	2 3 2 5 3 19	
Summer S DH 190 DH 210	ession Clinical Dental Hygiene I Perio-Pathology	3 3 6	
Sophomore Fall Semes			
DH 200 DH 290 DH 320 Psy 100 CORE CORE	Dental Health Education Clinical Dental Hygiene II Pharmacology General Psychology [Comm 100 Oral Comm] [HPER 103 Lifetime Wellness]	3 5 2 3 3 2	
		18	
Spring Ser	mester		
DH 330 DH 390 CORE CORE CORE Soc 110	Ethics and Community Dentistry Clinical Dental Hygiene III [Humanities or Fine Arts] [Hist 110, Hist 120 or PSc 120] [HPER 101 Physical Activity] Intro to Sociology	3 5 3 1 3 18	
[]Departm	ent Recommendation		
For additional information contact: Sandra A. Scorse, D.D.S. Office: Technology Building 102 Phone: 625-9600 / 625-9379 / 625-9711			

Computer Aided Drafting and Design

Ummel Technology Building 101, 625-9567

Faculty Bartholet, Karimi

The computer aided drafting and design curriculum leads to an associate of science degree in CADD. The curriculum prepares individuals to enter employment as manual drafters and CAD technicians in the fields of manufacturing, civil, architecture or construction.

The requirements for the associate of science degree in drafting and design provide a broad base of technical and Core Curriculum courses. Computer Aided Drafting and Design hardware and software are used to supplement traditional manual instruction in all courses. Built into the curriculum is an emphasis on both low-end and highend P.C. based CAD software. As the students study the various fields within drafting, they are given opportunities to apply theory through the various CAD software packages available within the department.

The department also functions as an internationally recognized and authorized training center for AUTOCAD software. This allows each student to be exposed to the latest CAD technology and the application of international standard systems such as A.N.S.I. and I.S.O.

Student internships and independent studies allow the student to join the real world while in school and provide invaluable references for job placement later. Professional faculty maintain close ties with area industries to assure that high quality and currently used technology is taught.

Students who complete the A.S. degree in CADD may continue their education by pursuing a baccalaureate degree in management technology with an emphasis in business or technology which includes Computer Integrated Manufacturing (CIM), which opens the door into the ground floor of an exciting new field. CIM applications are now unfolding throughout both international and American industry.

Associate of Science Degree in Computer Aided Drafting and Design

Semester Hours **Core Curriculum Requirements** (page 35) **Drafting Requirements** 28 CADD 110 Introductory Drafting 3 CADD 115 Intro to Computer Aided Drafting CADD 120 Descriptive Geometry* 3 CADD 130 Machine Drafting* 3 CADD 202 Tool Design or 204 Mech Design* CADD 210 Technical Illustration* CADD 220 Architectural Drafting OR CADD 330 Computerized Machine Design * CADD 230 Survey and Mapping CADD 310 Computer Automated **Process Planning *** 3 CADD 260 Computer Aided Drafting* CAMT 100 Intro to Machine Tool **Processes** Electives (at least 9 hours) 9 Art 132 Intro to Design 3 Art 230 **Basic Form** 3 CJAD 210 Basic Photography 3 Comp 105 Intro to Micro Use 3 Comp 115 Computing I 3

Comp 120 Computing II

Chem 100 Introductory Chemistry

Oral Histology and Embryology Human Physiology and Anatomy

Fundamentals of Dental Hygiene II

18

DH 150

DH 102

Spring Semester

Pre-engineering

Comp 200	Advanced Personal	
	Computing w/graphics	3
CIS 360	Interactive Computer	0
	Graphics	3
Acct 201	Principles of Acct I	3
Acct 202	Principles of Acct II	3
GB 101	Intro to Business	3
CAMT 160	Inspection and Gaging	2
Math 112	Trigonometry	3
CADD 298	Special Topics in Draftin	ng
	& Design*	1-3
CADD 490	Internship in Drafting &	4
	Design*	1-8
CADD 498	Seminar in Drafting &	
	Design*	1-3
CADD 499	Independent Study*	1-3
	None of the April 6	24

*See course description for prerequisites

Suggested Order of Study

Associate of Science Degree Major Code 5303 Computer Aided Drafting and Design Major

Freshman Year

2nd Semester

CADD 210 Technical Illustration

CADD 260 Computer Aided Drafting

1st Semester Hours Course CADD 110 Intro to Drafting CADD 115 Intro to Computer Aided Drafting

Math 30 OR Math 130 Intermediate or College Algebra CAMT 100 Intro Mach Tool Proc CORE [Humanities or Fine Arts] [Psy 120 College Orientation] CORE

2nd Semester CADD 120 Descriptive Geometry CADD 130 Machine Drafting CORE [Eng 101 Comp I] Comm 101 Oral Comm [HPER 101 Physical Activity] CORE [HPER 103 Lifetime Wellness] CORE Technical Elective

18 Sophomore Year 1st Semester CADD 202 or 204 Tool Design or Mechanical Design CADD 230 Survey and Mapping OR CADD 310 Computer Automated Process Planning (Phys 100 Fund of Phys Sci) **Technical Electives** 17

	Architectural Drafting	
	Computerized Machine Design	3
CORE		3
CORE	(Hist 110, Hist 120 or PSc 120)	3
		15
	OR CADD 330 CORE	CADD 330 Computerized Machine Design CORE (Psy 100 or Soc 110)

[]Department Recommendation ()Prerequisites

For additional information contact: Mr. Francis Bartholet

Office: Technology Building 112

Phone: 625-9567

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Pre-engineering

Reynolds Hall 208/212, 625-9719/625-9540

Knapp, Martin, Phillips, Sloan **Faculty**

The math and physical science departments at Missouri Southern, in cooperation with the engineering staff at the University of Missouri-Rolla and the University of Missouri-Columbia have prepared booklets describing the Cooperative Engineering Program between these schools and MSSC. These booklets list the course sequence for a student taking the first two or two and one-half years of an engineering science curriculum at Southern and planning to transfer to UMR or UMC. The plan also includes the courses the student will take at UMR or UMC to complete a B.S. degree in various engineering disciplines.

Although most of the engineering programs are standard for the first two years, there are a few differences and thus the student should meet with a pre-engineering adviser during the first semester. If a student wishes to transfer to a school other than UMR or UMC, it is suggested that the catalog of that school be reviewed for any differences in its program and the UMR or UMC outline. College catalogs are available in the Reserve area of Spiva Library. Any adviser who desires a copy of the booklet should contact the mathematics or physical science department.

Semester Hours Core Curriculum requirements** 25 **Pre-engineering Requirements** 45 General Physics I* 5 Phys 250 5 Phys 260 General Physics II* 3 Phys 312 Statics* Chem 101 General Chemistry I*** Math 150 Calculus with Analytical Geometry I* Math 250 Calculus with Analytical 5 Geometry II* Calculus with Analytical Math 260 5 Geometry III*

Comp 120	Fortran****	3
	Prin of Economics (Macro	0)
		3
Elective (M	ath or Physics)***	3
Elective (H	umanities/Social Science/	
Drafting/Cl	hemistry)***	3
		70

*See course descriptions for prerequisites. **Required math and physics courses simultaneously satisfy Core Curriculum and major requirements.

The student should meet with a preengineering adviser for the proper selection depending on the field of engineering. *UMC prefers Comp 110 and requires this for electrical and computer engineering students.

Suggested Order of Study

Associate of Science Degree Major Code 5499

rre-enginee	ering major	
Freshman \	/ear	
1st Semeste	er	
Course		Hours
CORE	[Eng 101 Comp I]	3
Math 150	Calculus I	5
CORE	[Hist 110 OR 120 U.S. History] 3
Chem 101	General Chemistry I	5
CORE	[Psy 120 College Orientation]	1
CORE	[HPER 101 Physical Activity]	1
		18
2nd Semes	tor	
	Calculus II	_

2nd Semes	ster	
Math 250	Calculus II	5
Phys 250	General Physics I	5
Econ 201	Prin of Economics	3
CORE	Humanities of Fine Arts/Draf	ting/
	Chem II*	3-5
		16-18

Sophomore		
1st Semeste	er	
Math 260	Calculus III	5
Phys 260	General Physics II	5
Comp 120		3
Core	Sociology or Psychology*	3
CORE	[HPER 103 Lifetime Wellness]	2
		18
2nd Semes	ter	
Math 322	Differential Eq.	3

2nd Semes	ster	
Math 322	Differential Eq.	3
Phys 372	Electronic Circuits	4
Phys 341	Thermal Physics	
OR		
Phys 322	Classical Mechanic	3-4
CORE AND/OR	[Comm 100 Oral Comm]*	
	11	3-6
CORE	Humanities/Fine Arts	16-17

Environmental Health

Summer Session Phys 312 Statics

*Suggested elective (not strict requirements)
**UMC prefers Comp 110 and requires this for
electrical and computer engineering students.

For additional information contact:

Dr. Larry Martin

Office: Reynolds Hall 212 Phone: (417) 625-9540

OR

Dr. Russell Phillips Office: Reynolds Hall 208 Phone: (417) 625-9719

Environmental Health Technology

Reynolds Hall 313, 625-9731

Faculty Adams - Coordinator, Tillman

The College offers the four-year bachelor of science in environmental health with two options and a two-year associate of science degree.

Option I

This bachelor of science degree requires three academic years of study at Missouri Southern preceded or followed by successful completion of three trimesters at the Water and Wastewater Division of Crowder College, Neosho, Mo. The student holds membership in only one student body at a time. At Missouri Southern the student pays the same fees as any other student if residency requirements have been met.

Option II

This bachelor of science degree requires four complete academic years at Missouri Southern, including a semester internship. Plans for the internship should be made with the student's adviser during the spring semester of the junior year.

The associate of science degree is in affiliation with the Water and Wastewater Technical Division of Crowder College, Neosho, Mo. The combination of Missouri Southern requirements that are basic to all combined associate degrees, the specific courses required for the associate degree in environmental health technology, plus completion of a minimum of three trimesters of approved study at the Water and Wastewater Technical Division of Crowder College will qualify the student for the associate of science degree. The student may complete the requirements at either

school first, but is a member of only one student body at a time.

Bachelor of Science

Bio 112

Environmental Health Technology Major

Semester Hours

Core Curriculum Requirements
(page 35) 51* 39
Biology and Environmental Health Core
34
Bio 101 General Biology 4

Bio 122	Zoological Survey	3
Bio 211	Microbiolgy	
OR		
Bio 231	Medical Microbiology	5
Bio 290	Research Methods in	
	Biology	2
Bio 306	Human Physiology and	
	Anatomy	
OR	the time of little got Deep gr	

Botanical Survey

	Anatomy	
OR	busine subbisque Presi g	
Bio 431	Animal Physiology	5
EHT 312	Environmental Biology	4
EHT 370	Environmental Health	4
EHT 372	Environmental Regulatio	ns
	& Program Administration	n
	end with the later	4
Mathemati	cs and Physical Science	

Mathemati	cs and Physical Science	
Requireme		30
Math 140	College Algebra and	
	Trigonometry	5
Chem 101	General Chemistry I	5
Chem 102	General Chemistry II	5
	Analytical Chemistry I	5
Chem 300	Introduction to Modern	
	Organic Chemistry	5
Phys 151	Elementary College Phys	ics

College C	Computer Requirement	
Bio 303	Computer Applications	in
	Biology	
OR		

C	R			
A	pproved Co	omputer C	Course	2-3
			Wastewater	
	٨	Manageme	ent	
M	later and W	Vastewater	Technical	

Opper Division Hours Awarded	20
	135-136
Ontion II Institutional and Comm	unity

Health
16-17
Select approved courses to complete a 30
hr. block from the following. The block
must include EHT 450 Internship in Environmental Health.

Bio 240	Radiation Biology	3
Bio 361	Parasitology	4

Bio 402	General Ecology	4
Bio 481	Aquatic Ecology	4
EHT 298	Selected Topics in	
	Environmental Health	1-8
EHT 373	Solid Waste Manageme	nt 2
EHT 375	Vector Control	2
EHT 377	Community Sanitation	4
EHT 380	Epidemiology	2
EHT 385	Food, Milk and Consun	ner
	Protection	4
EHT 450	Internship in	
	Environmental Health	1-8
EHT 483	Environmental Assessm	ent
		2
EHT 498	Seminar in Environment	al
	Health	1-3
EHT 499	Problems in Environmen	ntal
	Health	1-3
Geol 300	Environmental Geology	4
	1	35-136

Majors satisfy the writing intensive (WI) requirement by completing ENG 101 and 102 (or their equivalent) and three WI classes in environmental health, biology or a supporting area.

*Required courses in biology, chemistry, mathematics and physics satisfy major requirements and 12 hrs. of the Core Curriculum.

Associate of Science in Environmental Health Technology

Semester Hours
Core Curriculum Requirements*
(page 35) 25
Biology and Environmental Health Core

0,		8-9
Bio 101	General Biology	4
Bio 231 OR	Medical Microbiology	5
EHT 312	Environmental Biology	(if
	WWTS completed)	4
Physical So	cience Requirement	10
	General Chemistry I	5
Chem 102	General Chemistry II	5
	Wastewater Technical	
School		30

*9 hrs. satisfied by required biology and mathematics courses.

Suggested Order of Study

Associate of Science Degree Major Code 5299 Environmental Health Major

**Prescribed 48 week course at Water and Wastewater School-30 Hrs.

Law Enforcement

Summer Ses CORE	ssion [Behavioral Science]	3		proved courses to complete a 30 m the following. The block must	enforcement	ent helps prepare students fo into police work, a field which
	r filosofico 3 April 1995, 1995 1885 - 1995 filosofico 1995	17	Health		The assoc	ciate of science degree in lav
CORE	[HPER 103 Lifetime Wellness] [Humanities and Fine Arts]	2 3	Option II	Institutional and Community		eker, Terry, Whittle, Williams
	[American Cultural Studies] [Humanities and Fine Arts]	3		r to entering Missouri Southern.	Faculty	Spurlin - Head, Mosher, Rich
Bio 112	Botanical Survey (Bio 101) [Eng 102 Comp II]	3 3	Three trim	Water and Wastewater Management- nesters at the Water and Wastewater f Crowder College. This work may be		Enforcement Idemy 102, (417) 625-9302
2nd Semest	er	17	Senior Yea		Office: Rey Phone: 625	nolds Hall 317D -9698
	College Algebra & Trigonomet	ry 5		15	Mr. David	the state of the s
	[HPER 101 Physical Activity] [Psy 120 College Orientation]	1	EHT 370	Environmental Health (EHT 312 & 370 or consent) 4	Phone: 625 or	-9731
	[Eng 101 Comp I]	3 1	EUT 270	& 370 or consent) 4	Office: Rey	nolds Hall 313A
CORE	[American Cultural Studies]	3	LIII 3/2	Program Administration (EHT 312	Dr. Wayne	nal information contact: Adams
Course Bio 101	General Biology	Hours 4	EHT 372	Chemistry (Chem 102) 5 Environmental Regulations and	quirements	10 may 10
1st Semeste		1,5	Chem 300	Introduction to Modern Organic	Program m	ust satisfy Writing Intensive (WI) re
Freshman Ye	STATE OF THE PROPERTY OF THE PARTY OF THE PA		Bio 290	Research Methods in Biology (Bio 112 or 122) 2	() Prerequis	ental Recommendation ite
Major Code	1299 tal Health Technology Major		2nd Semes		0.0	135-136
	Science Degree			en aker a sept in this tent a vender		(Phys 100) 4
Sugges	ted Order of Study	/	CORE	[Humanities and Fine Arts] 3	Geol 300	Health (consent) 1-3 Environmental Geology
	Ton 2		Chem 201	Analytical Chemistry I (Chem 102)	EHT 499	Problems in Environmental
er College c	after completing work on the Cr ampus.	owa-	EHT 312	Environmental Biology (Bio 101 & consent) 4	EHT 498	Seminar in Environmental Health (consent) 1-3
	may be taken prior to ent			5		2
Phone: 625-	9698		OR Bio 431	Animal Pysiology (10 hrs. Biology)	LI 11 TO3	(EHT 312 & 370 or consent)
Office: Rey	nolds Hall 317D		OB	(Bio 121 or consent)	EHT 483	(consent) 1-8 Environmental Assessment
Mr. David T	illman		Bio 306	Human Physiology and Anatomy		Environmental Health
Phone: 625- or	9/31		Junior Year 1st Semest		EHT 450	Internship in
Office: 313A	Reynolds Hall		lunion Vo	The constant of the constant of the constant of		4
For addition Dr. Wayne A	al information contact:		CORL	3		Protection (Bio 211 or 231, EHT 312 & 370 or consent)
	ent Recommendations		Summer S CORE	ession [International Cultural Studies] 3	EHT 385	Food, Milk and Consumer
		8		13-10		EHT 312 & 370 or consent)
	HPER 103 Lifetime Wellness	2	Phy 151	Elem College Physics (Math 140) 5 15-16	EHT 380	Epidemiology (Bio 290,
CORE Comm 100	[Psy 100 or Soc 110]	3	CORE	[American Cultural Studies] 3		(EHT 312 & 370 or consent)
Summer Ses			OR approved	computer course 2-3	EHT 377	Community Sanitation
	as office mind on the	18	Bio 303	Computer Applications in Biology (consent)	2111 3/3	370 or consent) 2
	[Hist 110 or PSc 120]	3		General Chemistry II (Chem 101) 5	EHT 375	Vector Control (EHT 312 &
	[Eng 101 Comp I] [Literature or Fine Arts]	3 3	2nd Semes			(EHT 312 & 370 or consent)
	Environmental Biology	4		Salt of the Mark Salt of Salt	EHT 373	Solid Waste Management
Chem 102	General Chemistry II	5	CORE	[Comm 100 Oral Comm] 3		101, 112 & 122) 1-8
2nd Semeste	ar .		Chem 101	General Chemistry I (Math 140) 5	EHT 298	Selected Topics in Environmental Health (Bio
ear some	A DESIGNATION OF THE PARTY OF	16	Bio 231	Medical Microbiology (Bio 101) 5	Bio 481	Aquatic Ecology (Bio 122) 4
	[HPER 101 Physical Activity]	1	Bio 211 OR	General Microbioloy (Bio 101)		122) 4
	Algebra and Trigonometry [Psy 120 College Orientation]	5 1	Bio 122	Zoological Survey (Bio 101) 3	Bio 402	General Ecology (Bio 112 &
Bio 101	General Biology	4	Sophomore 1st Semest		Bio 361	Parasitology (Bio 122) 4
	General Chemistry I	5	Sanhamare	Voor	Bio 240	Radiation Biology (Bio 306 & Chem 101 or consent) 3
Course		lours		6	tal Health.	
1st Semeste						

Manufacturing

has become highly specialized and complex at the local, state and national levels. Modern law enforcement responsibilities make academic preparation beyond the high school level essential.

The College also offers the four-year bachelor of science degree in criminal justice administration. (See page 139)

Associate of Science in Law **Enforcement**

Semester Hours

CORE

	Semester i	iours		
Core Curriculum Requirements				
(page 35)		26		
(6 Core hou	urs are satisfied by taking	the		
following re	equired courses)			
	ement Requirements	39		
Soc 110	Introduction to Sociology	,		
		3		
Elective Be	havioral Science	3		
Elective Be	havioral Science	3		
Comp 105	Introduction to Micro			
	Computer Use	3		
LE 100	Introduction to Law			
	Enforcement	3		
LE 110	Police Organization and			
	Administration	2		
LE 150	Interview and Report			
	Writing	2		
	viser Approved			
LE 200	Criminal Investigation	3		
LE 210	Criminal Procedures	3		
LE 290	Police Supervision and			
	Management	3		
LE 250	Criminal Law	3		
Psy 100	General Psychology	3		
PSc 120	Gov't: U.S., State, Local	3		
HPER 220	First Aid	2		

Suggested Order of Study

Associate of Science Degree Major Code 5505 Law Enforcement Major

Freshman \		
	er	
Course	H	lour
CORE	[Eng 101 Comp I]	
CORE 110	Intro to College Math	
Comp 105	Intro to Micro Computer Use	
LE 100	Intro to Law Enforcement	
LE 110	Police Organization and	
	Administration	
CORE	[Psy 120 College Orientation]	
CORE	[HPER 101 Physical Activity]	
		1
2nd Semes	ter	
Psy 100	General Psychology	
CORE	[Phys 100 Fund of Phys Sci]	
	,	

LE 150	Interview and Report Writing	2
LE 210	Criminal Procedures	3
		16
Sophomore	Year	
1st Semest	er	
CORE	[Comm 100 Oral Comm]	3
CORE	[HPER 103 Lifetime Wellness]	2
CORE	[PSc 120 Gov't: U.S., State, Lo	cal]
		3
LE 200	Criminal Investigation	3
Elective Be	havioral Science Elective	3
Elective Fin	e Arts Elective	3
		17
2nd Semes	ter	
Elective Be	havioral Science Elective	3
HPER 220		2
LE 250	Criminal Law	3
LE 290	Police Supervision and	
	Management	3
	viser Approved	3
Elective Ad	lviser Approved	3
		17

[Soc 110 Intro to Sociology]

[]Department Recommendation

For additional information contact: Jack G. Spurlin Office: Police Academy 103

Phone: 625-9651

Computer Assisted Manufacturing Technology

Ummel Technology Building 101, 625-9327

Schultz, Karimi **Faculty**

The computer assisted manufacturing technology curriculum leads to an associate of science degree in manufacturing technology. The curriculum prepares individuals for employment as technicians or entry level manufacturing/industrial engineers.

The requirements for the degree provide a broad base of technical and general education courses which will assist the individual in securing employment and responding to future technological changes. The use of computers is emphasized throughout the program. The College is a National Authorized AutoCAD Training Institution. The CAM/CAD departments at Southern have received recognition in world class competition for innovative developments in the computer graphics field and robotics. This learning environment, combined with a faculty who have direct links with industry, insures instruction current with the latest technological developments.

Computer assisted manufacturing technol-

ogy majors are required to take courses in mathematics, physical science, computer programming, computer aided drafting and design, computer numerical control, robotics and automation. The foundation using todays emerging technologies is taught with the use of manual manufacturing machinery the first year. These courses are combined with manufacturing and technical electives to provide a curriculum that will assist the individual in developing the strong, yet flexible, technical background needed in today's international environment.

Students who complete the associate of science degree in computer assisted manufacturing technology can expand their education by pursuing a baccalaureate degree in management technology, with an emphasis in computer integrated manufacturing (C.I.M.). The management technology degree has been developed to instill in the technician/engineer a management perspective for overseeing potential proj-

Associate of Science in Computer Assisted Manufacturing Technology

	Semester H	ours		
Core Curriculum Requirements				
(page 35)		25		
	Assisted Manufacturing Tec	h		
Requiremen		28		
CAMT 100	Intro to Machine Tool			
	Processes	4		
CAMT 105	Intermediate Mach Tool			
	Processes*	4		
CAMT 200	Fundamentals of Machine			
	Tool Programming*	4		
CAMT 250	Computer Assisted			
	Manufacturing*	4		
CAMT 290	Production Planning &			
	Control*	3		
CADD 110		3		
CADD 130	Machine Drafting*	3		
Math 112	Trigonometry	3		
COMP 105	Intro Micro Use	3		
Manufactur	ing Technology Electives (a	ıt		
least 10 hou	irs)	10		
CAMT 160	Inspection and Gaging*	2		
CAMT 260	Fundamentals of			
	Metallurgy	3		
CAMT 310	Manufacturing Data			
	Processing*	3		
CAMT 330	Quality Control &			
	Reliability*	3		
CADD 115	Intro to Computer Aided			
	Drafting	2		

Medical Technology

CADD 202	Tool Design*	3
	Mechanical Design*	3
	Computer Aided Drafti	ing*
		3
CADD 310		ion
	Planning & Control	
	Systems*	4
CADD 330	Computer Machine	
	Design*	3
CAMT 298	Special Topics in	
	Manufacturing Tech*	1-8
CAMT 490	Internship in	
	Manufacturing Tech*	1-8
CAMT 499	Independent Study in	
	Manufacturing Tech	1-3
		63
*See course	e descriptions for prerea	uicites

Suggested Order of Study

Associate of Science Degree Major Code 5399 Computer Assisted Manufacturing Technology Major

Freshman Ye		
Course		Hou
CAMT 100	Intro Machine Tool Process	ses
		4
CADD 115	Intro CAD	2
Math 130 OR	College Algebra	
Math 030	Intermediate Algebra	3
CORE	[Humanities and Fine Arts]	3
CORE	[Psy 120 College Orientation	n]
	and the second second	1
CADD 110	Intro Drafting	3
		1

CADD 110	intro Draiting		1
2nd Semeste			
CAMT 105	Intermediate Machine Tool		
	Processes	4	
CADD 130	Machine Drafting	3	
Math 112	Trigonometry	3	
CORE	[Eng 101 Comp I]	3	
CORE	[Comm 100 Oral Comm]	3	
CORE	[HPER 101 Physical Activity]	1	
CORE	[HPER Lifetime Wellness]	2	
n-uncad			1

Sophomore 1st Semeste		II.
CAMT 200	Fundamentals of Mach Tool	
	Programming	4
Comp 105	Intro Micro Use	3
CORE	(Hist 110, Hist 120 or PSc 12	20)
		3
CORE	(Phys 100 Physical Science)	5
Technical El	ectives	3

2nd Semest	er
CAMT 250	Computer Assisted
	Manufacturing

CAMT 290	Production, Planning &	
	Control	3
CORE	[Psy 100 or Soc 110]	3
Technical El	ectives or Internship	4
	E. Charles to the soft of the	14
For addition	al information contact:	
Mr. Donald	I. Schultz	

Medical Technology

Office: Ummel Technology Building 115

Reynolds Hall 210, 625-9376

Phone: 625-9327

Faculty Baiamonte, Mosher

The bachelor of science degree in medical technology is granted to students who complete the required program of study satisfactorily. These requirements include the basic requirements for all bachelor of science degree programs, required science and other supportive courses plus 32 hours of professional course credits. The completion of this degree is required before an individual is eligible to take the certifying examination.

Missouri Southern has affiliation agreements with the Schools of Medical Technology at St. John's Regional Medical Center, Joplin, Mo.; St. John's Regional Health Center, Springfield, Mo.; Lester E. Cox Medical Center, Springfield, Mo.; and Research Medical Center, Kansas City, Mo. If a student wishes to attend an accredited school of medical technology with which the College has no formal agreement, the Vice President for Academic Affairs can negotiate an agreement for the individual student. Students should be aware that enrollment in the professional schools is limited. Each of the professional schools has its own admission criteria and selects those students to be admitted to a class from the applicants for that class. In general, this selection is based on the academic record or demonstrated aptitude for the medical field. Students are responsible for filing their own application for admission with the professional schools. Application should be made to the professional school during the early fall of the junior year or approximately 10 months prior to the expected entrance date.

Students who are unsuccessful in gaining admission to a professional school can normally select and complete another science major with the advice of the appropriate department head.

A student may enroll in the professional courses either at the hospital-based

school or through Missouri Southern, depending on the policies of the hospital-based school. Students enrolled at the hospital-based school are not considered members of the Missouri Southern student body, since the hospital-based school in such cases is considered as any other accredited institution of higher education. A student enrolling through Missouri Southern is considered a member of the College student body and is, therefore, eligible for benefits offered all students.

The weekly time requirements for the professional medical technology courses (400 level) listed are based on the minimum requirements for a course meeting for a normal academic term for a minimum of 16 weeks. Actual scheduling of classes may vary according to custom of the individual professional school to meet these minimum total hour requirements.

Bachelor of Science with a Major in Medical Technology

Semester Hours Core Curriculum Requirement (page 35) 51** 39 24-25 **Biology Requirement** General Zoology Bio 121 4 Bio 231 Fundamentals of Medical 5 Microbiology* Bio 305 Genetics* 4 Bio 306 Human Physiology and 5 Anatomy* 3 Bio 456 Immunology* Either Bio 361 4 Parasitology* OR Bio 362 Virology* 3 **Chemistry Requirement** 24-25 Chem 101 General Chemistry I* 5 Chem 102 General Chemistry II* 5 Chem 201 Analytical Chemistry I* 5 Chem 300 Introduction to Modern Organic Chemistry* OR Chem 351 Biochemistry*** 4 Chem 421 Analytical Chemistry II* **Other Requirements** Phys 151 **Elementary College Physics** Elementary College Physics Phys 152 Math 140 Algebra and Trigonometry

3

Comp 115 Computing I

Military Science

400 Level	Medical Technology Courses	
(at Hospit		
(at 1103pit	143-146	6
*\$00 cour	se descriptions for prerequisites	_
	d biology, physics and mathe	
require	u blology, physics and mathe	-
	urses simultaneously satisfy Core	2
	m and major requirements.	
	nn's, Springfield, Mo., require	-
ment		
Sugges	sted Order of Study	
Bachelor of	Science Degree	
Major Code		
Medical Tec	chnology Major	
Freshman Y		
1st Semeste Course	Hour:	
Chem 101		5
Chem 101		5
Math 140		5
CORE		3
Comp 115		3
CORE		1
	1:	7
2nd Semes	ter	
Chem 102		5
Bio 121		4
CORE		3
CORE		3
CORE		3
	18	B
Sophomore	Voar	
1st Semeste		
Chem 201	Analytical Chemistry I (Chem 102)	1
		5
Bio 231	Fundamentals of Medical	
		5
CORE		3
CORE		3
CORE		1
Elective [M	T 200 Intro to Medical Technology]	
		1
	18	В
2-d C		
2nd Semes Chem 300		
Chem 300	Intro to Modern Organic Chemistry (Chem 102)	_
Bio 305		5
CORE		3
CORE		3
CORE	[Hist 120 or Hist 320 U.S. History]	-
		3
	18	8

Bio 361 OR	Parasitology (Bio 121)	
Bio 362 CORE CORE	Virology (Bio 231) [HPER 103 Lifetime Wellness] [Humanities & Fine Arts]	3-4 2 3 18-19
2nd Semes		
Chem 421 OR	Analytical Chemistry II (Chem	1 201)
Chem 351 Phys 152	Biochemistry (Chem 300) Elementary College Physics II (Phys 151)	4-5
Bio 456 CORE	Immunology [Psc 120 Gov't: U.S., State, Lo	3 cal]
CORE	[International Cultural Studies	3] 3 16-17
Senior Year 1st Semeste (At an appl Technology MT 401 MT 403	er roved School of Medical	10 6 16
2nd Semes (At an appr Technology	roved School of Medical	
MT 402 MT 404 MT 405 MT 406 MT 407	Clinical Microscopy Serology Clinical Microbiology Immunohematology Special Topics in Medical Technology	1 3 7 3
() Prerequis	sites ent Recommendations	16
Dr. Vernon	nolds Hall 213	
and	Mosher Znolds Hall 242 d Police Academy 105 G-9733 or 625-9382	

Military Science

Police Academy 109, 625-9545

Faculty Dunn - Head, Rivette, Ross, Brown

Military science provides an additional dimension to a student's educational program. Students who participate in military science courses receive leadership, managerial and confidence-building training that will be of great value to them in any career they seek.

The military science program at Missouri Southern is divided into two elective pro-

grams, the Basic Course and the Advanced Course.

The Basic Course encompasses five freshman and sophomore level courses. There are no prerequisites for participating in any of the five courses offered; they may be taken in any sequence. Participants incur no military obligation by taking these courses. These courses are similar to all other college courses in that they carry academic credit and do not have uniform or appearance requirements. Basic Course subjects provide students with an understanding of the United States Army. Subjects taught in the Basic Course include leadership, survival, marksmanship, rappelling, land navigation, world conflicts, terrorism and history of ROTC. These courses will also qualify students for the Advanced Course in the event that they elect to continue in the military science program.

The Advanced Course includes the junior and senior courses. The primary objective is to prepare qualified students for commissioned officer service in the United States Army, the United States Army Reserve or the Army National Guard. All Advanced Course students receive \$100 per month for up to 10 months each year while enrolled in the Advanced Course. They also will attend ROTC Advanced Camp, normally during the summer between the junior and senior years. Compensation is received for travel and for time spent at camp. Advanced Course students, upon successful completion of the Advanced Course, are commissioned Second Lieutenants. They may choose to serve either three years in the Active Army or three to six months in the Active Army and fulfill the remainder of their commitment in the Army Reserve or Army National Guard.

All students enrolled in the Advanced Course, prior to being commissioned as officers in the Army, are required to take at least one course in each of the following areas: behavior, written communication skills, military history, mathematical reasoning and computer literacy. *Course work in management and national security policy are recommended but not required. The military history requirement is satisfied by taking Hist 400.

Two and three year scholarships are awarded annually on a competitive basis. Any full-time college student may apply. All scholarships pay for tuition and manda-

(Bio 121)

Elementary College Physics I (Math

Human Physiology and Anatomy

Junior Year

Phys 151

Bio 306

1st Semester

Nursing

tory fees. They also pay the student \$100 a month during each academic year and a book stipend of \$200 per semester.

Students with at least two academic years remaining in their course of study can complete the Basic Course requirements by participating in Basic Camp. Pay and allowances are received for Basic Camp participants. (See MS 298)

All students desiring to enroll in the Advanced Course who are not U.S. citizens must have department permission prior to enrolling.

Students with prior military service or military science training, including Junior ROTC, may be eligible for advanced placement in the military science program. A minor in military science may be obtained by completion of not less than 18 hours of MS courses to include: MS 301, 302, 411, 412, Hist 400.

Textbooks are supplied for all ROTC classes. Uniforms are not required for freshman and sophomore-level courses. Advanced Course students are furnished all required uniform items.

*To determine suitable courses, contact the military science department.

Nursing

Kuhn Hall 210, 625-9322

Associate of Science Degree

Faculty Box - Head, Ackiss, Ayton, Elgin, Jacobs, Ketchum, Ross, Shippee

The nursing program provides intensive preparation for an exciting career. Upon satisfactory completion of the associate of science degree in nursing, the graduate is eligible to apply to write the examination for licensure as a registered nurse (R.N.), barring restrictions stated in the state of Missouri Nursing Practice Act 335.066,1,2 (1)-(14) of the state of Missouri. This program is accredited by Missouri State Board of Nursing and National League for Nursing.

In addition to admission to Southern, applicants are required to apply for admission to the department of nursing in Kuhn Hall. Applications should be submitted prior to December 15 preceding the fall semester in which the applicant wishes enter. Each completed application is reviewed by the department of nursing Se-

lection Committee. Criteria for selection include: ACT scores or college GPA, nursing entrance test, science courses, references and interviews with nursing faculty. Class size is limited, therefore, admission is competitive. A list of projected expenses is available from the department of nursing.

Core Curriculum requirements should be selected with nursing adviser approval. Nursing courses must be completed in the prescribed sequence. Supporting science courses must be completed with a grade of "C" or above as listed in the suggested order of study and course descriptions.

Development, interference with body processes, altered body defenses, altered mobility and safety serve as organizing themes in the nursing courses. Legal issues, national and international, cultural diversity, pharmacology, nutrition and rehabilitation are integrated in the courses. Computer assisted instruction is included in classroom and clinical teaching. Students provide direct care to patients under the supervision of nursing faculty in a variety of clinical settings.

Associate of Science Degree in Nursing

Semester Hours
Core Curriculum Requirements

Core Curri	culum requirements	
(page 35)		25
(Additional	satisfied by required cours	es)
Nursing Re	quirements	52
(See course	e descriptions for prerequis	sites)
Nurs 100	Introduction to Nursing	
	Process	6
Nurs 110	Nursing Process with the	
	Developing Family*	9
Nurs 130	Nursing Process in	
	Psychiatric-Mental Health	
	Nursing*	4
Nurs 220	Nursing Process with	
	Adults I (WI)*	9
Nurs 240	Nursing Process with	
	Adults II*	9
Bio 306	Human Physiology and	
	Anatomy*	5
Chem 100	Introduction to	
	Chemistry*	5
Bio 231	Fundamentals of Medical	
	Microbiology*	5
		77

*See course descriptions for prerequisites.

Suggested Order of Study

Associate of Science Degree Major Code 5208 Nursing Major

Fres	hman	Year
------	------	------

1st Semes	ter	
Course		Hours
Nurs 100	Intro to Nursing Process	6
Bio 306	Human Physiology and An	atomy *
	man a strabule there	5
CORE	[Eng 101 Comp I]	3
Math 30	Intermediate Algebra (or N	1ath 130)
		3

*Bio 121 must be completed prior to Bio 306.
*Bio 306 must be completed prior to or concurrent with Nurs 100.

2nd Semester

Nurs 110	Nursing Process with Developing	
	Family	9
Chem 100	Intro to Chemistry **	5
Psy 100 OR	General Psychology	
Soc 110	Intro to Sociology	3
		17

**Chem 100 must be completed prior to or concurrent with Nurs 110.

Summer Session

Nurs 130	Nursing Process in Psychiatric-
	Mental Health Nursing

Sophomore Year

Nurs 220	WI)
	9

Bio 231	Fund of Medical Microbiology	***
	the region will be to be a	5
CORE	[Literature or Fine Art]	3

***Bio 231 must be completed prior to or concurrent with Nurs 220.

2nd Semester

Zilu Seille	SICI	
Nurs 240	Nursing Process with Adults II	9
CORE	[HPER 101 Physical Activity]	1
CORE	[HPER 103 Lifetime Wellness]	2
CORE	[Comm 100 Oral Comm]	3
CORE	[PSc 120 or Hist 110]	3
		18

For additional information contact:

Department of Nursing Office: Kuhn Hall 210 Phone: 625-9322

Nursing

Kuhn Hall 210, 625-9322

Bachelor of Science Degree

Faculty Box - Head, Ayton, Singleton

The bachelor of science in nursing program (BSN) is designed exclusively for Registered Nurses. The goals of the BSN program are to: graduate professionals who are generalists prepared to function in various health care settings; prepare graduates to deliver nursing care to individuals, families and

Paramedic/Radiologic Technology

communities; provide a foundation for graduate education; and expand practice in the roles of the professional nurse.

Registered nurses are admitted to the College as transfer students. A maximum of 64 credit hours from junior or community colleges may be transferred. In addition to the College's admission and transfer requirements, applicants to the BSN program must show evidence of: graduation from a stateapproved and National League for Nursing (NLN) accredited associate degree or diploma nursing program; cumulative GPA of 2.5 or above on a 4.0 scale; current registered nurse licensure or eligibility in the state of Missouri; junior level standing with 60+ credit hours; three satisfactory professional nurse references; decision score of 100 on the NLN Mobility Profile II. Books 1, 2 and 3; score 75 percent on the Clinical Validation Examination; minimum of one year of Registered Nurse practice in a three year period prior to admission is preferred.

Selection is competitive and based on the selection criteria.

Core Curriculum requirements for the bachelor of science degree may be met prior to beginning the nursing course sequence. Students entering the program must complete the upper level courses within five consecutive years.

Applications, readmission and transfer criteria are available in the nursing department in Kuhn Hall.

Bachelor of Science Degree in Nursing Semester Hours

	Jennester i	louis
Core Curri	culum Requirements	
(page 35)		51
Validation	Examinations	28
Nursing M	ajor Requirements	42
Nurs 300	Concepts of Professional	
	Nursing (WI)	3
Nurs 315	Gerontic Nursing	3
Nurs 320	Nursing Ethics	3
Nurs 330	Advanced Health	
	Assessment*	6
Nurs 400	Community Health	
	Nursing	6
Nurs 415	Nursing Research (WI)	3
Nurs 430	Nursing Management and	d
	Leadership	5
Nurs 498	Nursing Elective	3
Bio 308	Human Pathophysiology	4
Psy 320	Statistics	3
Approved	upper level division elective	/e
Tiple was a		3

Additional electives to constitute 128 hrs.

*See course descriptions for prerequisites.

Suggested Order of Study

Bachelor of Science Degree Major Code 3200 **Nursing Major**

Based on completion of Core Curriculum courses

Junior Yea		
1st Semest	ter	
Course		Hour
Nurs 300	Concepts of Professional Nu (WI)	irsing
Nurs 315	Gerontic Nursing	100
Bio 308	Human Pathophysiology*	
		1

and Semes	ter	
Nurs 320	Nursing Ethics	3
Nurs 330	Advanced Health Assessment	6
Comp 105	Intro to Micro Computer Use**	3
and the second		12

Senior Yea	r	
1st Semest	ter	
Nurs 400	Community Health Nursing	6
Nurs 498	Nursing Elective	3
Psy 320	Statistics*	3
		12
2nd Seme	ster	

2nd Seme	ster	
Nurs 415	Nursing Research	3
Nurs 430	Nursing Management and	
	Leadership	5
Approved	Upper Division Elective	3
in the second		11

*Prerequisite: Math 110 or 130 must be completed prior to Psy 320. Bio 306 must be completed prior to Bio 308.

**Comp 105 or Computer Literacy Validation is required for the BSN.

Completion of a majority of the 51 hours of MSSC Core Curriculum is desirable before admission to the BSN program. Twenty-eight hours of lower division nursing is validated by examination.

For additional information contact: Department of Nursing Office: Kuhn Hall 210 Phone: 625-9322

Preprofessional

Police Academy 101, 625-9519

Associate of Arts Degree

This curriculum is designated for Missouri Southern students to complete admission requirements for professional schools that will accept applicants who have completed approximately 60 hours. Also, students who are completing certification requirements

for paramedic programs and desire a college degree may choose this degree program.

Curriculum Requirements	
Prepharmacy	
Major Code 7007	
Core Curriculum Requirements	
(page 35)*	14
Eng 101 and 102 English Comp**	6
Chem 101 and 102 General	
Chemistry**	10
Math 150 Calculus**	5
Social Sciences/Humanities**	14
Bio 306 Human Physiology and	
Anatomy	5
Electives	10
	64

*28 hours of Core requirements are met by UMKC School of Pharmacy minimum requirements.

***UMKC School of Pharmacy minimum requirements.

Paramedic Program

Major Code 7008

In cooperation with the College's Division of Continuing Education, the School of Technology offers certificate programs preparing students to take state certifying examinations as Emergency Medical Technicians or as Paramedics. This is closely integrated with area Emergency Medical Services and hospitals. Students seeking information about these programs should check with the Director of Continuing Education for details about scheduling of the courses. The curriculum and its length varies with current Missouri state requirements.

Associate of Arts Requirements

arcd of	ii cilicits		
Core Curriculum Requirements			
(page 35	5)	42	
Bio 306	Human Physiology and		
	Anatomy*	5	
EMT	Course	6	
EMT-P	Course	12	
		65	

*Satisfies Core requirements

Radiologic Technology

Kuhn Hall 210, 625-9322

Faculty Beals

The associate of science degree in radiologic technology combines Core Curricu-

Courses/Aviation

Summer*

lum courses, supportive courses in the behavioral sciences and natural sciences and special courses in the field of radiology including extensive clinical laboratory experiences. The clinical laboratory experiences are provided through agreements between Missouri Southern and St. John's Regional Medical Center or other accredited facilities. The student successfully completing the curriculum is eligible to write the National Registry Examinations to become a Registered Technologist.

Completion of the degree requires the completion of Core Curriculum requirements for the associate of science degree, all radiologic technology courses, Bio 306, Bio 240, Chem 100 or Phys 100 and Psy 221. Applicants whose backgrounds have not prepared them for Bio 306 must meet these prerequisites before being admitted to the program.

Special admission procedures are required for admission to this program in addition to admission to Missouri Southern. These special admission procedures should be initiated a minimum of six months before the date the student would plan to enter the program. Students may enter the program only at the beginning of the fall semester.

In addition to established fees for all college students, special fees of \$100 for the first semester and \$40 for each succeeding term, including summers, are required for enrollment in radiology courses.

Students who are already Registered Radiologic Technologists may also enter this program.

Radiological course credit will be granted to the Registered Radiologic Technologist, equal to that granted to the graduating associate of science student, at the time the Registered Radiologic Technologist starts the program. A minimum of 30 additional academic semester hours is required. This credit must include the general education requirements for the associate of science degree plus a concentration of courses in one of the subject-matter areas of business (accounting and secretarial procedures or business management), behavioral sciences or natural science (concentration in either biology, chemistry or physics).

Associate of Science in Radiologic Technology

Semester Hours 25

Core Requirements

Radiology	Requirements		55
Rad 101	Introduction to Radiolog	v*	
	8	3	
Rad 111	Medical Terminology	3	
Rad 121	Patient Care and Special		
	Procedures in Radiology	3	
Rad 132	Prin of Radiographic		
	Exposure	3	
Rad 142	Radiographic Positioning	1	
	8	3	
Rad 160	Film Critique	2	
Rad 170	Radiologic Physics	2	
Rad 180	Practicum in Radiology	4	
Rad 241	Radiographic Positioning	11	
	8	3	
Rad 252	Radiographic Positioning		
	III	3	
Rad 282	Practicum in Radiology II	2	
Rad 290	Practicum in Radiology II	1	
	-8/	4	
Rad 299	Advanced Radiology	3	
Bio 306	Human Physiology and		
	Anatomy*	5	
Chem 100	Elementary Chemistry**	5	
OR			
Phys 100	Fundamentals of Physical		
	Science	5	
Psy 221	Psychology of Personal		
	Adjustment	3	
Bio 240	Radiation Biology*	3	
	-01		79

*See course descriptions for prerequisites.
**Satisfies Core Curriculum Requirement.

Suggested Order of Study

Associate of Science Degree Major Code 5207 Radiologic Technology Major

Freshman Year
Fall Semester
Course Hours
Bio 306 Human Physiology and Anatomy**

5
Rad 101 Intro to Radiology 3
Rad 170 Radiologic Physics 3
Rad 142 Radiographic Positioning I
CORE [Psy 120 College Orientation] 1

	16
Spring Semester	
Math 130 College Algebra	
OR	
Math 30 Intermediate Algebra	3
Psy 100 General Psychology	3
Bio 240 Radiation Biology	3
Rad 132 Prin of Radiographic Expos	ure 3
Rad 241 Radiographic Positioning II	3
CORE [HPER 103 Lifetime Wellnes	s] 2
	17

Rad 160	Film Critique	2
Rad 180	Practicum in Radiology I	6
Sophomore	e Year	
Fall Semes	ter	
Chem 100 OR	Introductory Chemistry	
Phys 100	Fund of Phys Sci	5
CORE	[Eng 101 Comp I]	3
Psy 221	Psychology of Personal Adjus	
,	7,8,	3
Rad 111	Medical Terminology	3
Rad 252	Radiographic Positioning III	3
	8.4	17
Spring Sen	nester	
CORE	Hist 110 or PSc 120	3
CORE	[Comm 100 Oral Comm]	3
Rad 121	Patient Care and Special Procedures	3
Rad 282	Practicum in Radiology II	2
CORE	Literature or Fine Arts	3
CORL	Literature of Time Arts	14
Summer Se	emester	
Rad 290	Practicum in Radiology III	4
Rad 299	Advanced Radiology	3
	O,	7
[]Departme	ent Recommendation	
*Summer of	classes meet a minimum of 12 w	eeks.

**Placement in Bio 306 will depend on preentrance zoology test scores or completion of Bio 121.

For additional information contact: Mr. Wiley Beals

Office: Kuhn Hall 300 Phone: 625-9323 or 625-9322

OK

Mr. James K. Maupin Office: Police Academy 113 Phone: 625-9328

School of Technology Course Descriptions

Aviation (Av)

Basic Pilot Training
15.0801-200 5 hrs. cr.
An integrated course designed to meet ground school and flight training requirements for eligibility to take the Federal Aviation Administration examination for a Private Pilot Certificate. In addition to scheduled ground school classes, the course requires approximately 45 hours of dual and solo flight and check flight. Credit is awarded when the FAA certificate is obtained. Special fees and a third class medical certificate are required. Special fees for this course include plane rental and examiner's test fee. Course grade is recorded as Pass or Fail.

Courses/Computer Science

Computer Science (Comp)

Introduction to Microcomputer Use (F, S) 3 hrs. cr. 11.0201-105

Trains persons not necessarily employed as computer professionals who nevertheless have a need to use a microcomputer in their careers. Using a wide variety of packaged software, the student is shown how the microcomputer can be put to best use in a variety of applications with a minimum of programming effort. Three hrs. lecture per week. Supervised labs by arrangement, open labs as needed.

Programming I (Pascal) (F, S)

11.0201-110 3 hrs. cr. Introduction to Pascal programming language. Problem analysis and program design will be emphasized. Student learns syntax and language features through arrays and files. Applications will be varied and useful. Three hours lecture per week. Supervised labs by arrangement, open labs as needed. Corequisite: Math 130 or higher.

Computing I (BASIC) (F, S)

11.0201-115 3 hrs. cr. Introduction to BASIC programming language. Provides a service for non-majors and an elective for majors. Problem analysis and program design will be emphasized. Student learns syntax and language features through arrays and files. Applications will be varied and useful. Three hrs. lecture per week. Supervised labs by arrangement, open labs as needed. Corequisite: Math 130 or higher.

FORTRAN (F)

11.0201-120 3 hrs. cr. Introduction to the following areas: (1) mainframe hardware; (2) mainframe operating systems and program development software; (3) structured program design concepts and techniques; (4) program development and testing using a structured language. This class provides an introduction to the FORTRAN language and is designed to include applications from mathematics, statistics and engineering. Three lecture per week. Open labs as required. Prerequisite: Math 130 or higher.

Advanced Personal Computing w/Graphics (Demand)

11.0201-200 Introduction to the following areas: (1) knowledge, skills and programming techniques which are needed in order to develop microcomputer software for business and industry; (2) techniques for designing and producing microcomputer graphics displays. The language of instruction is BASIC. Three hrs. lecture per week. Supervised labs by arrangement, open labs as required. Prerequisite: Comp 115 (or one unit of high school computer programming or equivalent knowledge and three units of high school mathematics)

Block Structured Programming (F, S)

3 hrs. cr. Introduction to the practice of logical block

structured, hierarchical design of programs with strong data typing. Familiarizes the student with the modern languages which best support these concepts. Though other languages may be discussed, (e.g., Ada, PL/I and Modula-2) emphasis and practice is on the language Pascal. The ability to efficiently design and program significant tasks in Pascal will be the primary goal. Three hrs. lecture per week. Supervised labs by arrangement, open labs as needed. Prerequisite: Comp 110 and Math 130 or higher.

Report Program Generation (F, S)

11.0201-230 Introduction to programming language RPG II/ III, which is designed for quick and efficient production of business reports. Includes language syntax and practice in preparing, compiling and executing applications of increasing complexity. Three hrs. lecture per week. Supervised labs by arrangement, open labs as needed. Prerequisite: Comp 110 or higher.

Business Data Processing Techniques (F, S)

11.0201-234 Methods and techniques of solving business related problems using a business oriented language (COBOL) on a digital computer, including payroll systems, inventory control, billing systems, sorting techniques and file maintenance. Three hrs. lecture per week with open labs as needed. Prerequisite: Comp 110 or high-

Statistical Computer Applications (F)

(Writing Intensive)

11.0201-240 3 hrs. cr. A continuation of programming technique/development in a procedural language. Principles presented in previous courses will be employed. Emphasis on non-routine types of applications, including quality control, statistics, curve fitting, forecasting, etc. Three hours lectures per week, open labs as required. Prerequisite: Comp 110 (Pascal).

Selected Topics in Computer Science (Demand) 07.0305-298 1-8 hrs. cr. Special topics in computer science not normally

included in another course. Prerequisites specified by the department in a syllabus.

Principles of Digital Computing (Demand)

11.0401-301 Provides the necessary foundation for the continuing study of computing machines. Includes concepts of notation; binary system; systems conversion; Boolean algebra; Karnaugh map simplifications; computer components and architecture; micro, machine and assembler programming; data structures; and simple parsing. Three hrs. lecture per week. Supervised labs by arrangement, open labs as needed. Prerequisite: Comp 210.

Systems Concepts and Data Communications (S) Introduction to design characteristics of the most common types of on-line business computer applications. Includes study of components of the computer information system. Data communications comprises a significant portion of the course. Three hrs. lecture per week. Prerequisite: Comp 230 or higher.

Computer Information Science (CIS)

Microcomputer Applications (F, S)

11.0601-305 3 hrs. cr. A non-discipline specific examination of microcomputer hardware and applications software packages. Emphasis on the most widely used commercial tools, such as word processors, spreadsheets, graphics and database managers. Each application package will be examined in the detail appropriate to a professional's needs. Three hrs. lecture per week. Supervised labs by arrangement, open labs as needed. Prerequisite: One programming course or consent of instructor.

Operations Modeling (F)

(Writing Intensive) 11.0401-320

Introduction to analytical and simulation techniques used in the modeling of business operations for managerial decision support. Typical problem areas covered include scheduling, service queues, resource allocation, production planning, transportation, distribution, marketing, product mix, forecasting, bidding portfolio analysis, etc. Three hrs. lecture per week, open labs as needed. Prerequisite: Comp 210 and Comp

240 and upper division standing or consent of

Interactive RPG/400 (S)

instructor.

11.0305-321 Emphasis on on-line or real-time programming of business applications. File creation and maintenance, structured methodologies and advanced features of RPG III/400 and the AS/400 are major topics. Three hrs. lecture per week, open labs as needed. Prerequisite: Comp 230 or consent of instructor.

Assembly Language (S)

11.0201-330 Introduction to a computer's low level programming. Topics include an introduction to assembly language format, decimal and integer arithmetic, editing and execution instructions. Also debugging program construction will be applied. Numerous problems will be assigned. Three hrs. lecture per week, open labs as needed. Prerequisite: One 200-level programming class.

Advanced Structured COBOL (S)

11.0201-334 Emphasis on on-line or real-time programming of business applications. File creation and maintenance, structured methodologies and advanced features of COBOL are major topics. Three hrs. lecture per week, open labs as needed. Prereguisite: Comp 234.

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Programming in C (F)

11.0201-335

3 hrs. cr. Introduction to the C programming language. Topics include low level architecture, data types and machine independent programming; structured design as applied to large systems of programs; and syntax and semantics of an ANSI standard C implementation. Linking C both to assembly language and high-level language will be considered. Numerous problems will be assigned. Three hrs. lecture per week, open labs as needed. Prerequisite: One 200-level programming class.

Computer Simulation (F, Even)

11.9999-340

3 hrs. cr. Methods and techniques of solving systems of simultaneous differential equations on digital computers will be developed. Appropriate for mathematics, physics and engineering transfer students. Includes data flow modeling techniques, the simulation of non-linear functions, block diagramming of systems, familiarization with La Place methods. Various design problems of engineering, mathematics and physics applications and models of biological and social systems will be treated. Three hrs. lecture per week, open labs as needed. Prerequisite: Math 250.

Teaching Computer Science in Secondary School (Demand)

13.1399-346 2 hrs. cr. Introduction to instructional planning, materials selection and methods of teaching computer science/data processing subjects in secondary school. Part of the Professional Semester.

Data Structures and Techniques (S)

11.0401-350

3 hrs. cr. Introduces basic concepts of information and techniques for operating on data/program structures. Develops concepts and use of program control constructs, information structures, files, searching, sorting, updating, linking and attendant program documentation, debugging and testing. Three hrs. lecture per week. Prerequisite: Comp 210 or consent of instructor.

Interactive Computer Graphics (S, Odd)

11.0401-360

3 hrs. cr. Introduction to interactive computer graphics programming including windowing, clipping, two and three dimensional transformations, perspective projections, curved surface modeling, light and color. The functional capabilities of computer graphics systems and their applications will be covered. Three hrs. lecture per week, open labs as needed. Prerequisite: Math 150 and Comp 210.

Computer Colloquium (S)

11.0401-400 1 hr. cr.
Students have opportunity to make and attend individual presentations on computer topics of current and special interest. These topics are researched and organized by the student presenters and should make use of the best avail-

able software and media tools. Supplemental topics are presented by faculty and invited area computer professionals. May be repeated once for credit. Meets 2 hrs. per week for 1 hr. credit. Prerequisite: Upper division standing.

Internship in Computer Information Science (S) 11.0401-401 3-8 hrs. cr.

A limited number of computer information science students may serve an internship of 20 hours per week for up to 16 weeks. Credit hours to be arranged through the coordinator of the internship program. Intern works for a local, cooperating firm in a production data processing environment, gaining valuable experience in programming and/or systems analysis and design to supplement course work. On-site work supervised by a professional employee of the firm and overseen by an MSSC faculty member. Prerequisite: Junior or senior standing, department approval and an overall GPA of 3.0.

Information System Analysis (F)

11.0501-410 3 hrs. cr. Supervised and practical experience in the analysis and design of computer based information systems with emphasis in the areas of basic design tools and objectives, documentation, hardware/software selection, system concepts, software design and engineering with computer assisted software engineering tools, evaluation and project management. Three hrs. lecture per week, open labs as needed. Prerequisite: Comp 302.

Database Design and Implementation (S)

11.0502-425

3 hrs. cr. In-depth look at the major database architectures applied in many of the commercial DBMS packages. Major components of a DBMS such as query languages, data dictionaries, security systems, utilities, data definition languages (DDL) and data manipulation languages (DML) are also covered. Three hrs. lecture per week, open labs as needed. Prerequisite: Comp 234 and CIS 410.

Introduction to Artificial Intelligence (F, Odd)

11.0401-430 3 hrs. cr. Introduces process of developing intelligent computer software through the use of a special object oriented programming language such as Prolog. Topics which are covered include knowledge abstraction and representation, heuristic search techniques, expert systems, language processing, machine learning and metaprogramming. Three hrs. lecture per week, open labs as needed. Prerequisite: CIS 350.

Operating System Software (F)

(Writing Intensive)
11.0401-450
3 hrs. cr.
Provides a working view of hardware, operating software and firmware; examines the role of JCL in a data processing environment. Systems for filling, managing data and communicating are studied. Several common operating systems are studied with one used as a model so students gain insight into the function of operating sys-

tems. Three hrs. lecture per week. Prerequisites: CIS 350 or permission of department head.

Programming Languages (S, Even)

11.0401-460 3 hrs. cr. Introduction to the mechanisms and formality behind language structure, particularly as applied to some of the more modern and esoteric computer programming languages. A formal approach to syntactic analysis, grammars and parsing techniques will lead into an introduction to automata and their relation to language and problem solving. Several diverse programming languages (e.g. LISP SNOBOL, Prolog, C, FORTH, PL/I) will be examined with example programs to be written in each. Three hrs. lecture per week. Prerequisite: Two programming language courses.

Seminar in Computer Science (Demand)

11.0305-498
1-3 hrs. cr. Addresses emerging topics in computing. Course content will depend on the needs of the attendees. Prerequisites: 60 hrs. credit with a GPA of 3.0 or permission of department head.

Independent Study (Demand)

11.0305-499
1-3 hrs. cr.
Structured by the adviser with approval of the department head. Prerequisite: 60 hrs. credit with a GPA of 3.0. Enrollment must be approved by adviser, department head and dean of the school.

Criminal Justice Administration (CJAd)

Introduction to Security (S)

43.0103-230 3 hrs. cr. Overview of the security industry and its role in loss prevention. Public versus private security roles for retail business, industrial and governmental protection. Basic principles such as target hardening and current problems.

Basic Photography (F, S)

43.0605-210 3 hrs. cr. Lecture and laboratory procedures for use of cameras, lenses, developing negatives and prints and enlarging.

Physical Security (S)

43.0103-325

3 hrs. cr. Physical aspects of the security industry and its role in loss prevention for retail business, industrial and governmental protection. Consideration of barriers and perimeter protection, alarm systems, computer and hazardous materials protection and survey techniques. Prerequisite CJAd 230 Introduction to Security or instructor's permission.

Legal and Technical Aspects of Firearms (F, S) 43.0103-260 3 hrs. cr.

History and development of firearms. The nomenclature of the most commonly used police firearms and the duties and requirements of a rangemaster. The laws concerning firearms ac-

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quisitions, ownership and use. Three hrs. lecture per week. Additional lab time arranged.

Special Topics in Criminal Justice Administration (Demand)

43.0103-298

1-8 hrs. cr.
Course content varies and is designed to meet current needs and interests in the rapidly changing field of criminal justice administration. Precise topics are announced with prerequisites stipulated in the course syllabus.

Criminal Investigation II (S)

43.0103-300 3 hrs. cr. Major case investigative methods, sources of information, development of leads, methods applicable to organized crime and specific offenses.

Traffic Accident Investigation and Control (F)

43.0103-310 3 hrs. cr. Theory and techniques for investigation and reducing occurrence of motor vehicle accidents, collection and evaluation of physical evidence reporting.

Probation and Parole (S)

43.0103-320 3 hrs. cr. Study of presentence investigation methods, predicting parole behavior, supervisory practices, legal aspects, the use of amnesty and pardons. Prerequisites: LE 100, Soc 110 or instructor's permission.

Loss Prevention Techniques (F)

43.0103-330 3 hrs. cr. Security techniques in loss prevention for retail business, industry, governmental protection, hotel and motel, hospital, school, transit systems and utilities. Prerequisites: CJAd 230.

Administration of Security Systems (Demand)

43.0103-331 3 hrs. cr. The security administrator's role in business, industrial and governmental protection. Organizing, training, managing and designing security programs. Prerequisites: CJAd 230, CJAd 325 or CJAd 330 or instructor's permission.

Basic Color Photography (S)

43.0605-340 3 hrs. cr. Basic color theory concepts used in the production of color transparencies and color prints. Lab fee. Prerequisite: CJAd 210 or permission of instructor.

Fish and Game Enforcement (S)

43.0103-350 3 hrs. cr. Problems and procedures encountered and used by conservation enforcement officers. Laws and enforcement procedures.

Homicide Investigation (Demand)

43.0103-400 3 hrs. cr. Legal and criminalistics concepts and procedures for the medico-legal investigation of death due to natural, accidental, suicidal or criminal cause. Prerequisite: LE 200 or permission.

Juvenile Procedures (F)

43.0103-410

3 hrs. cr. Juvenile and family court procedures and substantive law as applied to the youthful offender. Procedures for juvenile officers such as collection of evidence, taking into custody and development of the case. Prerequisite: LE 210 or permission.

Juvenile Corrections (S)

43.0103-411 3 hrs. cr. Overview of the design and legal requirements of juvenile correctional institutions including an analysis of the juvenile interstate compact laws and management principles of juvenile correctional institutions. Prerequisite: Soc 110.

Correctional Practices (F)

43.0103-412 3 hrs. cr. History of corrections as it relates to correctional practices. In-depth study of the rights of the incarcerated inmate as well as the powers and duties of the correctional officer. Prerequisites: LE 100 or permission.

Criminal Evidence (S)

43.0103-450 3 hrs. cr. Rules of evidence, admissibility, presumptions, inferences, burden of proof and exceptions to the hearsay rule. Prerequisite: LE 210, LE 250.

Internship in Criminal Justice (Arr)

43.0103-490
1-8 hrs. cr. Extensive practical experience with an area criminal justice agency, subject to individual committee approval. Not open to those who have taken LE 180. Prerequisite: Junior or senior standing, CJAd major, department approval, overall GPA 3.0 and a CJAd GPA 3.5.

Seminar in Criminal Justice (Demand)

43.0103-498
1-3 hrs. cr.
A survey of current advances in the field. Precise topics to be announced, for upper division majors in CJAd or those who have completed the A.S. degree in law enforcement. Prerequisite: permission of instructor.

Independent Study in Criminal Justice (Arr)

43.0199-499
1-3 hrs. cr. Individually directed study for advanced majors in area of criminal justice selected with adviser approval. Proposal must be approved by program director and school dean. Prerequisite: 3.5 GPA in major area or permission.

Dental Hygiene (DH)

Fundamentals of Dental Hygiene I (F)

17.0102-101 4 hrs. cr. Introduction to fundamental theories, principles and procedures necessary to provide dental hygiene services. Theories and principles are applied in clinical laboratory setting. Two hrs. lecture, 6 hrs. lab per week.

Fundamentals of Dental Hygiene II (S)

17.0102-102 4 hrs. cr. Continuation of DH 101 with further enrichment of skills necessary to perform preventive oral health services. Theories and principles are applied in clinical laboratory setting. Two hrs. lecture, 6 hrs. lab per week. Prerequisites: DH 101 with minimum grade of "C" or instructor's permission.

Dental Morphology (F)

17.0102-140

1 hr. cr. Detailed study of morphology of deciduous and permanent teeth in relation to fossal cusps, grooves, ridges, roots and the relationship of form and function. Occlusion and malocclusion are studied according to their relationship to dental health. A self-instructional program supplemented by one hr. lecture per week.

Oral Histology and Embryology (F)

17.0102-150 3 hrs. cr. Study of the gross and microscopic development of the teeth, supportive structures of the teeth and embryology and anatomy of head and neck region. Two hrs. lecture, 3 hrs. lab per week.

Dental Radiology (S)

17.0102-160 2 hrs. cr. Theory and technique of exposing, developing, mounting and care of dental radiographs. Interpretation of radiograph findings is discussed, principles of radiation safety are emphasized. One hr. lecture, 4 hrs. lab per week.

Clinical Dental Hygiene I (Summer)

17.0102-190

3 hrs. cr. Introduction to clinical practice of dental hygiene. Experience in providing patient services through performing oral prophylaxis, exposing and processing radiographs, presenting patient education, applying fluoride, charting the oral cavity, etc. Treatment and prevention of dental office emergencies is covered in the lecture session. One hr. lecture, 1 seminar and 16 hrs. lab per week. Prerequisite: DH 102 with minimum grade of "C" or instructor's permission.

Dental Health Education (F)

17.0102-200

3 hrs. cr. Fundamentals of teaching and learning theories. Development of teaching units and lesson plans for various public groups and/or organizations, practical experience in public schools and community groups and experience in providing dental health education to mentally and physically handicapped and geriatric patients. Three hrs. lecture per week.

Perio-Pathology (Summer)

17.0102-210 3 hrs. cr. Lectures and laboratory periods are devoted to the study of oral pathological conditions, including etiology, degenerative process, inflammation and immunity. Etiology, classification, treatment and prevention of periodontal disease is stressed. Six hrs. lecture per week.

Dental Materials (S)

17.0102-220 3 hrs. cr. Information about various dental materials. Stu-

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dents learn to make alginate impressions, plaster models and manipulate other materials. Required course for dental hygiene curriculum. Prerequisite: DH 101 Fundamentals of Dental Hygiene "I" with a "C" or above or instructor's permission. Two hrs. lecture, 2 hrs. lab per week.

Clinical Dental Hygiene II (F)

17.0102-290 5 hrs. cr. Continuation of DH 190 with added responsibilities as skills develop. Lecture information on advanced dental hygiene techniques and techniques for local anesthesia and pain control. Practical experience in infiltration anesthesia during the laboratory session. Multicultural experience is gained through rotations in extended campus facilities. One hr. lecture, 16 hrs. clinical lab per week. Prerequisites: DH 190 with minimum grade of "C" or instructor's permission.

Nutrition (S)

Nutrition and diet as related to dental health, biochemistry of digestion and the utilization of nutrients. Special emphasis on dietary analysis as part of total health care and the role of the dental hygienist in providing nutritional counseling. Two hrs. lecture per week.

Pharmacology (F)

17.0102-320 2 hrs. cr. Principles of drug actions and characteristics of major drug groups including sources of drugs, methods of their administration, classification, dosage, therapeutic action and drug interactions. Emphasis on drugs affecting oral health and drugs used in dentistry. Two hrs. lecture per week.

Ethics and Community Dentistry (S)

17.0102-330

3 hrs. cr. Professional ethics and commitment, professional organizations, state practice acts and practical consideration of methods and problems associated with operating and maintaining a dental practice. Definition and identification of the scope of public and dental public health. Consideration of philosophy; health legislation; federation of philosophy; health legislation; federation of philosophy; and demands for dental care; and mechanisms for financing dental care. Three hrs. lecture per week. Prerequisites: DH 200 with minimum grade of "C."

Clinical Dental Hygiene III (S)

17.0102-390 5 hrs. cr. Continuation of DH 290. Clinical experience in advanced clinical procedures and dental assisting procedures, including experience in extended campus facilities. Principles of four-handed dentistry in the lecture portion and discussion of the eight recognized dental specialties including their relationship to preventive dentistry. One hr. lecture, 16 hrs. lab week. Prerequisite: DH 290 with minimum grade of "C" or instructor's permission.

Computer Aided Drafting and Design (CADD)

Introductory Drafting (F, S)

48.0105-110 3 hrs. cr. Includes use of instruments, geometric construction, lettering, orthographic projection, dimensioning, sections and conventions, auxiliaries and pictorial drawings. One hr. lecture, 4 hrs. lab per week. Corequisite: CADD 115.

Intro to Computer Aided Drafting (F, S)

48.0105-115 2 hrs. cr. Computer aided drafting and the operation of a computer drafting system. Should be taken concurrently with Drafting 110 by students who have had no college drafting courses. Individuals who have a background in drafting will be able to take the course for personal or professional improvement, with consent of instructor. One hr. lecture, 2 hrs. lab per week.

Descriptive Geometry (S)

48.0105-120 3 hrs. cr. Practical applications of advanced projection techniques to problems in civil, structural, mechanical and architectural engineering. Manual and computer assisted projects on methods are introduced. One hr. lecture, 4 hrs. lab per week. Prerequisite: CADD 110.

Machine Drafting (S)

48.0105-130 3 hrs. cr. Detail and assembly drawings of machines and machine elements. Survey of the use of machine tools, processes and materials in the design and fabrication of machine parts. One hr. lecture, 4 hrs. lab per week. Prerequisite: CADD 110.

Tool Design (Demand)

48.0105-202 3 hrs. cr. Principles of tool design with emphasis on the design and graphical representation of common jigs and fixtures used in the manufacturing industry using manual and computer methods. One hr. lecture, 4 hrs. lab per week. Prerequisite: CADD 130.

Mechanical Design (F)

48.0105-204

3 hrs. cr. Principles of mechanical design with emphasis on proper selection, function and graphical representation of common machine components. Formulas, vendor catalogs and commercial computer software will be used to select components. One hr. lecture, 4 hrs. lab per week. Prerequisites: CADD 120 & 130.

Technical Illustration (S)

48.0105-210

3 hrs. cr. Pictorial drawing with an emphasis on mechanical and architectural applications. Major topics include mechanical illustrations, exploded views and perspectives drawn manually and with a computer aided drafting system. Drawing media such as polyester film, ink, illustration board, lettering systems and air brushes will be intro-

duced. One hr. lecture, 4 hrs. lab per week. Prerequisite: CADD 110 or consent of instructor.

Architectural Drafting (S)

48.0105-220 3 hrs. cr. Principles of architectural design, preparing sets of working drawings, building details and use of modern construction materials for residential building. Manual and computer aided design techniques used throughout the course. One hr. lecture, 4 hrs. lab per week. Prerequisite: CADD 110 or consent of instructor.

Survey & Mapping (F)

15.0203-230 3 hrs. cr. Theory, principles and practices of surveying and mapping as applied to construction, site plans and right-of-way planning. Use and care of survey instruments and equipment. Survey reports and computations and preliminary surveys stressed. Calculations conducted manually and with commercial computer software. One hr. lecture, 4 hrs. lab per week. Prerequisite: CADD 110 or consent of instructor.

Computer Aided Drafting (F, S)

3 hrs. cr. Preparation of drawings in mechanical, civil, architectural, structural and electronics using a computer aided drafting system. A variety of commercial CAD software packages will be used to assist the advanced student in developing skill and knowledge in the use of a CAD system to prepare drawings in one or more drafting fields. Three 1 hr. lectures per week, open labs as required. Prerequisites: CADD 110, CADD 115 and one or more drafting specialty courses from the following: CADD 130, CADD 202, CADD 220 or CADD 230. A student having industrial drafting experience may be admitted with consent of instructor if CADD 115 or equivalent industrial training course has been completed.

Computerized Production Planning and Control Systems (F)

48.0105-310 3 hrs. cr. Theory and application of computer-automated process planning (CAPP) systems as they relate to the study of computer-integrated manufacturing (CIM). Three hrs. lecture, labs are arranged. Prerequisite: CAMT 160.

Computer Machine Design (S)

48.0105-330 3 hrs. cr. Instruction in the principles, theory and applications of machine design utilizing the CAD workstation. Special emphasis on solid modeling and design analysis. Three hrs. lecture labs are arranged. Prerequisite: CADD 130.

Internship in Drafting & Design (Demand)

48.0105-490

1-8 hrs. cr. A structured work experience in drafting/design at an institution, facility or industry not directly related to Missouri Southern. The work experience will be a practical application of the student's major field of study under the direct supervision of an on-site professional who is not

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a Southern faculty or staff member. The on-site professionals will supervise the student's activity in the field. A faculty member will be responsible for approving the placement site and supervising the overall activities of the internship. Prerequisite: 15 hrs. of drafting & committee approval.

Special Topics Draft/Design (Demand)

48.0105-298

1-8 hrs. cr.
A special topic or topics not normally included in another drafting/design course. Prerequisites determined by the department and stipulated in a course syllabus.

Seminar in Drafting & Design (Demand)

48.0105-498

1-3 hrs. cr.
Specialized knowledge and skills related to new developments in drafting and design. Topics will vary by the semester and situation. Prerequisite: An associate degree in drafting & design or senior standing in management-technology or industrial technology.

Independent Study in Drafting & Design (Demand)

48.0105-499

1-3 hrs. cr. Individually directed reading, research and discussions in selected areas of drafting and design for advanced majors. Scope, depth, area of concentration and credit hours will be arranged when registering for the course. Offered by arrangement. Prerequisite: 15 hrs. of drafting with 3.0 GPA and permission of instructor, department head and school dean.

Environmental Health Technology (EHT)

Selected Topics in Environmental Health

18.0799-298 1-8 hrs. cr. Special topics in environmental health not normally included in another course. Prerequisite: Bio 101, 112 and 122.

Environmental Geology (Demand)

4 hrs. cr. Introduction to man's relationship to the earth's environment. Limitations of natural resources and future projections are considered along with man's demands on the environment. Oil spills, surface mining, waste disposal, ground water and other problems of a geologic nature are reviewed. Natural environmental hazards, such as volcanoes, earthquakes, subsidence, mass movements and floods are examined. Prerequisite: Phys 100. (Double listed in geology.)

Environmental Biology (F)

26.0603-312 4 hrs. cr. Environmental factors and their interactions with living organisms. Emphasis on human ecology and wise natural resource utilization. Three lectures, one 2-hr. lab per week. Prerequisite: Phys 100, Bio 101, Math 110 or permission of instructor. (Double listed in biology.)

Environmental Health (Demand)

26.0704-370 4 hrs. cr. Contemporary environmental health problems and public protection measures, including public health disease prevention, vector control, etc. Three lectures, one 2-hr. lab per week. Prerequisite: Bio 211 or 231, junior standing in science or permission of instructor. (Double listed in biology.)

Environmental Regulations and Program Administrations (F, Odd)

18.0799-372 4 hrs. cr. Study of regulations which constitute the basis for management of environmental agencies and organization of environmental health agencies. Prerequisite: EHT 312 and 370 (Bio 312 and 370) or permission of instructor.

Solid Waste Management (S, Even)

18.1107-373 2 hrs. cr. Introduction to the problems and solutions related to the generation, storage, collection and disposal of solid wastes. Management aspects of planning, organizing, designing and operating refuse collection and disposal systems also included. Prerequi site: EHT 312 and 370 (Bio 312 and 370) or permission of instructor.

Vector Control (S, Even)

18.1107-375 2 hrs. cr. Identification and control of organisms which serve as reservoirs and vectors of diseases. Prerequisite: EHT 312 and 370 (Bio 312 and 370) or permission of instructor.

Community Sanitation (S, Odd)

18.1107-377 4 hrs. cr. Introduction to concepts, principles and methods generally useful in performance of duties of city and county health department personnel. Prerequisite: EHT 312 and 370 (Bio 312 and 370) or permission of instructor.

Food, Milk and Consumer Protection (F, Even) 18.1107-385 4 hrs. of

Introduction to production, processing, transporting and retailing of food, milk, shellfish and other foods. Prerequisite: Bio 231, EHT 312 (Bio 312) and EHT 370 (Bio 370) or permission of instructor.

Environmental Assessment (S, Odd)

26.0603-483 2 hrs. cr.
The essential elements necessary for development of an environmental assessment document as specified by the National Environmental Protection Act. Prerequisite: Bio 290 and EHT 370 (Bio 370) or permission of instructor.

Epidemiology (S, Odd)

18.1107-380 2 hrs. cr. Introduction to the concepts, principles and methods generally useful in the surveillance and investigation of communicable disease. Prerequisite: Bio 290, EHT 312 (Bio 312) and EHT 370 (Bio 370) or permission of instructor. (Double listed in biology.)

Internship in Environmental Health (F, S)

18.0799-450

1-8 hrs. cr. Experience in actual observation and work at health facilities, health regulation agencies and/ or industrial plants where environmental health is a viable concern. Periodic meetings between the Missouri Southern coordinator, the cooperating institution and the student will be required. The student should not be employed in any job that will prevent full-time, maximum concentration on the academic internship. Prerequisite: Senior standing in environmental health or biology curricula.

Seminar in Environmental Health

18.0799-498
1-3 hrs. cr. For upper division environmental health and biology majors only. Meets regularly a minimum number of hours. Designed to give specialized instruction in some discipline of environmental health not covered in other courses. Prerequisite: Junior standing, 20 hrs. in environmental health and/or biology and a minimum GPA of 2.5 in environmental health and/or biology or permission of instructor.

Problems in Environmental Health

18.0799-499
1-3 hrs. cr. Individual work under the supervision of a staff member, with the credit and hours to be arranged. Problems may be undertaken in any field of environmental health, with adequate preparation and the consent of the supervising instructor, coordinator, department head and school dean. Prerequisite: Minimum GPA of 3.0 in 20 hrs. of environmental health and/or biology.

Law Enforcement (LE)

Introduction to Law Enforcement (F, S)

43.0107-100 3 hrs. cr. Municipal, county, state and federal police organizations. History and administration of justice. Responsibilities and opportunities in the field of law enforcement.

Police Organization and Administration (F)

43.0107-110 2 hrs. cr. Management operations, communications, budgeting, recruiting, training and public relations as they pertain to local and state law enforcement agencies.

Interview and Report Writing (S)

43.0107-150 2 hrs. cr. The techniques of interviewing and writing the report. Legal considerations for criminal interrogations. Use of basic report forms and records systems.

Basic Police Academy (F, S, Summer)

43.0107-180 6 hrs. cr. The basic training course for new law enforcement officers in Missouri, approved by P.O.S.T. (Police Officers Standards and Training) Office of the State Department of Public Safety. The broad range of topics includes firearms, reports,

Courses/Manufacturing, Medical Tech

defensive tactics, investigation and Missouri traffic and criminal laws. Prerequisites: LE 100, LE 110 and LE 150 or permission. (Additional lab fee for course.)

Criminal Investigation I (F)

43.0107-200

3 hrs. cr. Fundamentals of criminal investigation techniques including crime scene procedures, burglary and death investigation. Includes collection, preservation, identification of evidence and overview of crime lab procedures.

Criminal Procedures (F)

43.0107-210 3 hrs. cr. Criminal law procedures from arrest through trial, search and seizure, laws of evidence, review of pertinent supreme court decisions and related topics. The order of criminal trial.

Criminal Law (S)

43.0107-250 3 hrs. cr. Criminal law purposes and functions, laws concerning arrest, search and seizure. Rights and duties of officers and citizens in relation to local, state and federal laws. The development, application and enforcement of laws.

Police Supervision and Management

43.0107-290 3 hrs. cr. Principles of personnel management as applied to law enforcement agencies: evaluation, promotion, discipline, training, employee welfare and problem-solving leadership.

Special Topics in Law Enforcement (Demand)

43.0107-298

1-8 hrs. cr.
Course content varies and is designed to meet current needs and interests in the rapidly changing field of law enforcement. Precise topics to be announced and prerequisites stipulated in course syllabus.

Computer Assisted Manufacturing Technology (CAMT)

Intro to Machine Tool Processes (F, S)

48.0503-100 4 hrs. cr. The theory and safe operation of basic machine tools. Fundamental practices include: safety, basic mathematics, blueprint reading, benchwork, precision measurement, metal sawing, drills and drilling, pedestal bench grinding, engine lathes, shapers, mills and pantographs. Two hrs. lecture, 6 hrs. lab per week.

Intermediate Machine Tool Processes (F, S)

48.0503-105

4 hrs. cr. An introduction to the operation of surface, cylindrical, tool and cutter grinders. Principles of inspection and gaging, applied trigonometry, tooling geometry and advanced lathe and milling practices will be covered. Two hrs. lecture, 6 hrs. lab per week. Prerequisites: CAMT 100, CADD 110, Math 130 or consent of instructor.

Inspection and Gaging (S)

48.0503-160 2 hrs. cr. Inspection, gaging and precision measurement

procedures utilizing mechanical, electronic and optical measuring equipment and related math. Geometric dimensioning and tolerancing emphasized. Computer assisted process control methods are introduced and applied to specific inspection procedures. One 1-hour lecture, one 2-hour lab per week. Prerequisites: CAMT 100, CADD 110, Math 130 and Math 112 or consent of instructor.

Advanced Machine Tool Processes (F, S)

48.0503-200
4 hrs. cr. Basic numerical control concepts and its applications, the operation of numerical control system, numerical control programming as applied to machining applications using MDI. Two hrs. lecture, 6 hrs. lab per week. Prerequisites: CAMT 100, CADD 130, Math 130 or 112 or consent of instructor.

Computer Assisted Manufacturing (S)

Advanced techniques of CNC & N/C programming using a completely integrated environment. Concepts of manufacturing programs being an integral part of a dynamic environment as compared to being in an isolated system. Two hrs. lecture, 4 hrs. lab per week. Prerequisites: CAMT 100, CAMT 200, CADD 130, Math 130 or 112 or consent of instructor.

Fundamentals of Metallurgy (F)

48.0503-260

3 hrs. cr. Introduction to physical metallurgy. Theory and application of principles for identifying, producing, conditioning and testing of ferrous and nonferrous metals. Topics include heat treating, machining, welding, casting and forming of metals. Laboratory activities involve manual and computer assisted testing and metallographic examination. One 1-hr. lecture, two 2-hr. labs per week.

Production Planning and Control (S)

48.0503-290

3 hrs. cr. A survey of the essential steps for effective planning and control of manufacturing production. Emphasis on process identification, process sheets and scheduling with related costs. Activities that influence the production planning and control function will be surveyed including quality control, safety, plant layout, inventory control, material handling and justification of robots and automated equipment. Commercial computer software will be used throughout the course to strengthen and expand the principles taught. Three hrs. lecture per week. Prerequisite: CAMT 200, Comp 115 or consent of instructor.

Selected Topics in Manufacturing Technology (Demand)

48.0503-298

1-8 hrs. cr.
Special topics in new or emerging manufacturing technology that are not normally included in another course. Prerequisites will be specified by the department in a course syllabus.

Manufacturing Data Processing (F)

48.0503-310

4 hrs. cr. Designed to teach overall data processing techniques as relating to the manufacturing environment. A solid foundation of manufacturing processes and departmental structuring is required in addition to a knowledge of microcomputer usage. Two hrs. lecture, 6 hrs. lab per week. Prerequisites: CAMT 100, Comp 105 or PC DOS, CADD 115, Acct 201 or consent of instructor.

Quality Control and Reliability (F)

The concept of quality control and its applications. The importance of quality control, tools and techniques of SPC/SQC which would cover control charts used in quality control analysis, inspection and testing for quality control, process variability, product reliability and maintainability. Two hrs. lecture, 4 hrs. lab per week. Prerequisites: CAMT 100 & 160, Comp 105 or PC DOS, Math 310 or GB 321 or GB 405 or consent of instructor.

Internship in Manufacturing Technology (Demand)

48.0503-490 1-8 hrs. cr. A structured work experience in manufacturing technology at an institution, facility or industry not directly related to the Missouri Southern campus. The work experience will be a practical application of the student's major under the direct supervision of an on-site professional who is not an MSSC faculty or staff member. A faculty member will be responsible for approving the placement site and supervising the overall activities of the internship. Prerequisite: 15 hrs. of CAMT courses and permission of a committee.

Seminar in Manufacturing Technology (Demand) 48.0503-498 1-3 hrs. cr.

Covers specialized knowledge and skills related to new developments in manufacturing technology. Topics will vary by the semester and situation. Prerequisite: Senior standing in management-technology or an associate degree in manufacturing technology.

Independent Study in Manufacturing Technology (Demand)

48.0503-499

1-3 hrs. cr. Individually directed reading, research and report preparation in selected areas of contemporary manufacturing technology, for advanced majors. Scope, depth and area of concentration and credit will be arranged when registering for the course. Offered by arrangement. Prerequisite: Completion of required manufacturing technology courses with minimum 3.0 GPA and permission of instructor, department head and school dean.

Medical Technology (MT)

Introduction to Medical Technology (F, S)

A practical experience designed to introduce prospective medical technology students to the following areas of a hospital laboratory: hematology, coagulation, urinalysis, blood bank, mi-

Courses/Military, Nursing

crobiology, serology, radioimmunoassay and chemistry.

Clinical Chemistry (F)

18.0901-401 10 hrs. cr. Analytical and theoretical aspects of the clinical biochemistry of body fluid constituents utilizing both manual and instrumental techniques, including automation and special procedures. Five hrs. lecture, 20 hrs. clinic/lab per week.

Clinical Microscopy (S)

18.0901-402 1 hr. cr. Principles and techniques of the physical, chemical and microscopic examination of urine and other excrete as related to disease processes. One hr. lecture, clinic by arrangement.

Hematology (F)

6 hrs. cr. 18.0901-403 The cellular elements of blood and bone marrow; theory of cell production, release and survival; morphological characteristics of normal and abnormal cells; quantitative and qualitative abnormalities. Principles and techniques involved in the study of hemostasis, blood coagulation and hemorrhagic disorders. Three hrs. lecture, 12 hrs. clinic/lab per week.

Serology-Immunology (S)

18.0901-404 3 hrs. cr. The science of immunity including antibody development, principles of antigen-antibody interactions and techniques of serological testing for various disease states. Three hrs. lecture, 12 hrs. clinic/lab per week.

Clinical Microbiology (S)

18.0901-405 7 hrs. cr. Sterile technique, methods of handling and inoculating specimens containing pathogenic microorganisms, isolation and identification of pathogenic micro-organisms, laboratory tests in chemotherapy, and diagnostic bacteriology, mycology and parasitology. Four hrs. lecture, 12 hrs. clinic/lab per week.

Blood Bank-Immunohematology (S)

A study of the blood group systems and the immune response. Methods of crossmatching, antibody screening and phenotyping. Administrative safeguards and legal aspects of blood banking. Proper clinical utilization of blood components. One hr. lecture, 8 hrs. clinic/lab per week.

Special Topics in Medical Technology (S)

Lecture and/or clinical practice in the areas of inservice education, management and supervision, research and development, and principles and techniques of the instructional process. Lecture and labs to be arranged.

Military Science (MS)

Adventure Training (F)

28.0301-111 2 hrs. cr. Basic rifle marksmanship, camping, mountaineering, rappelling, map reading and survival. An overview of Army ROTC and job opportunities throughout the Army. One hr. lecture, 2 hrs. lab per week. Participants incur no military obligation by taking this course.

Survival Skills (S)

28.0301-112 2 hrs. cr. Basic survival skills in various geographic regions and climates, as well as basic first aid in survival situations. An overview of the branches of the Army, as well as the Army Reserve and Army National Guard. One hr. lecture, 2 hrs. lab per week. Participants incur no military obligation by taking this course.

Contemporary Military Subjects (F)

28.0301-121 2 hrs. cr. An overview of areas of military interest in today's world and how these current events affect each of us. Basic military management techniques and leadership styles. A review of ROTC programs and their application to career goals both military and civilian. Two hrs. lecture, one hr. lab per week. Participants incur no military obligation by taking this course.

Individual Military Skills (S)

28.0301-122 2 hrs. cr. Comprehensive instruction on a variety of "soldier skills" which the student should know prior to enrolling in Advanced ROTC courses. Customs and traditions, land navigation, field training exercises, physical training programs and additional leadership experiences. One hr. lecture, 2 hrs. lab per week. Participants incur no military obligation by taking this course.

Seminar in Military Science (ROTC Basic Camp) (Summer)

28.0301-298 2-8 hrs. cr. An in-depth study of the military science courses normally taught on the college campus during the freshman and sophomore years, including tactics, marksmanship, communication, physical conditioning and practical leadership experience. The six-week course is taught at Fort Knox, Ky. with transportation and room and board plus a salary provided by the Army.

Fundamentals and Dynamics of Military Team I (F)

28.0301-301 Leadership, its principles, responsibilities and techniques. Functions of the leader, leadership (including management of military assets), introduction to leadership theory and practice and military laws. Included is a physical training program and a weekend field problem. Three hrs. lecture per week. Prerequisite: Permission.

Fundamentals and Dynamics of Military Team II

28.0301-302 3 hrs. cr. Branches of the Army, small unit tactics, communications, leadership theory and practice. Included is a physical training program and two weekend field problems. Three hrs. lecture per week. Prerequisite: Permission.

United States Military Experience 1775 to Present

3 hrs. cr.

(See Hist 400)

28.0301-400 A broad view of military history as concerned with the role of force on land, sea or air against foreign governments and domestic dissidents. Emphasizes military policy, organization and technology, relating them to political, social and economic developments. Covers the major American wars and other activities of the armed forces but only in their larger aspects, selectively and for the purpose of illustrating the broad themes in the military experience. Three hrs.lecture per

Leadership and Management I (F)

28.0301-411 3 hrs. cr. Command and staff concept and evolution, organization for operations, the composition and mission of various military teams, broad aspects of military logistics, leadership theory and practice. Also included is a program of directed readings in military history, a physical training program and a weekend field problem. Three hrs. lecture per week. Prerequisite: Permission.

Leadership and Management II (S)

28.0301-412 3 hrs. cr. Military law, obligations and responsibilities of an officer, military personnel, logistics and administrative management, world change and military implications, leadership theory and practice. Also included are a physical training program and two weekend field problems. Three hrs. lecture per week. Prerequisite: Permission.

Nursing - Associate Degree (NURS)

Introduction to Nursing Process (F)

18.1101-100 An introduction to nursing, roles of the associate degree nurse and application of the nursing process with emphasis on health. Emphasis on the uniqueness of individuals through the study of development of the individual and family, cultural diversity and the communication process. Nursing history, ethical and legal aspects, pharmacology, nutrition and rehabilitation are introduced. Students are assigned to local clinical agencies for supervised experience in application of the nursing process. Students are expected to demonstrate proficiency in the basic nursing skills. Computer assisted instruction is utilized. Licensed practical nurses admitted to the program complete the theory portion of the course. Following the demonstration of clinical proficiency in basic skills, LPN's will be exempt from part of the clinical lab experience. Clinical experience sufficient to develop skill in the use of the nursing process will be assigned. Four hrs. of lecture, 8 hrs. of classroom and clinical lab including pre- and post-conferences.

Courses/Nursing, Paramedic

Nursing Process with the Developing Family (S) 18.1101-110 9 hrs. cr.

Family development and individual development from conception through adolescence. Following the initial emphasis on health, the nursing process is applied to complications of childbearing and common illnesses of childhood. The student is expected to organize care of selected patients. Communication skills are applied in caring for and teaching the family. Related drug, nutrition and rehabilitation interventions are included. Historical highlights, trends, legislation and international cultural implications are presented. Computer assisted instruction and computer adapted testing are included. Five hrs. lecture, 12 hrs. clinical lab including pre- and post-conferences. Prerequisites: Nurs 100 and Bio 306 with minimum grade

Nursing Process in Psychiatric-Mental Health Nursing (Summer)

18.1101-130 4 hrs. cr. The promotion of mental health as well as application of the nursing process in the care of the client who demonstrates alterations in mental health in psychiatric mental health settings. Use of therapeutic communication and the nursepatient relationship are emphasized. Related pharmacology, legal and ethical issues, nutrition are integrated. Computer assisted instruction is utilized. Four hrs. lecture, 12 hrs. clinical lab including pre- and post-conference. Prerequisites: Nurs 110 and Chem 100 with minimum grade of "C."

Nursing Process with Adults I (F)

18.1101-220

9 hrs. cr.
Applies the nursing process to the adult client and family in achieving wellness. Development aspects of the middle years are emphasized. In the clinical setting, opportunity is given to organize and provide care to more than one patient utilizing roles of the associate degree nurse. Communication including writing skills and health teaching are emphasized. Legal, rehabilitational aspects are integrated. Five hrs. lecture, 12 hrs. clinical lab including preand post-conferences. Prerequisite: Nurs 130 with minimum grade of "C."

Nursing Process with Adults II (S)

18.1101-240
9 hrs. cr.
A continuation of Nursing 220 with application of the nursing process to include critical care areas. The student assumes a greater role as member of the health team by increased utilization of organizational and managerial skills. Developmental aspects of aging are emphasized. Professional issues, international trends as they influence health care are included. Four hrs. lecture, 15 hrs. clinical lab including preparant post-conferences. Prerequisites: Nurs 220 and Bio 231 with minimum grade of "C."

Selected Topics in Nursing (Demand)

18.1101-298 1-3 hrs. cr. Special topic or topics not normally included in

another course. Prerequisites to be determined by the department of nursing and stipulated in a syllabus of the course.

Nursing - Baccalaureate Degree (NURS)

Concepts of Professional Nursing (F)

(Writing Intensive)

18.1120-300 3 hrs. cr. Provides opportunities for socialization of the learner in transition from a technical level to the professional level of nursing practice. Core content includes theories of nursing, the nursing process, change theory, communications, teaching/learning process and professional accountability. Professional roles of the nurse presented are teacher, planner of care, communicator and contributor to the discipline of nursing. Three hrs. lecture. Prerequisite: Admission to BSN program.

Gerontic Nursing (F)

18.1120-315

3 hrs. cr. Provides comprehensive knowledge of the processes and problems of aging. Needs and functional capacities of the aged are addressed. Emphasis is placed on the formulation of interventions appropriate to the individual needs of the aged client and family. Issues relevant to the field of gerontic nursing are presented. Three hrs. lecture. Prerequisite: Admission to BSN program or RN status with permission of instructor.

Nursing Ethics (S)

18.1120-320

3 hrs. cr. Investigates ethical issues which confront the professional throughout the client's life span. Ethics as a concept, traditional ethical approaches, constraints in nursing practice and selected ethical issues are presented. The role of the nurse will be emphasized using the case study approach. Three hrs. lecture. Prerequisite: Admission to BSN program or RN status with permission of instructor.

Advanced Health Assessment (S)

18.1120-330 6 hrs. cr. Physical assessment is utilized as a tool in the data collection phase of the nursing process. Clinical experience is designed to refine the assessment skills with the assistance of an instructor. Nursing process is applied to the care of patients with a complexity of health problems in a variety of settings. Three hrs. lecture, 3 hrs. campus lab and 6 hrs. clinical lab. Prerequisites: Nursing 300, Bio 308.

Community Health Nursing (F)

18.1120-400 6 hrs. cr. Concepts and methods for assessment of community strengths and health needs will be analyzed. Recommendation for the prevention, promotion and restoration of the health of individuals within the community, state and nation are presented. Interactive process is accentuated between health care providers and com-

munity residents to improve the overall health status of the person and aggregates. Three hrs. lecture, 9 hrs. clinical lab including conferences. Prerequisites: Nurs 300, Nurs 330.

Nursing Research (S)

(Writing Intensive) 18.1120-415

18.1120-415

3 hrs. cr. Provides guided investigation of research design, methodology, sampling, conclusions and clinical application of findings. Critical evaluation of research studies is emphasized. Legal and ethical issues relative to the research process are studied. Nursing research builds upon knowledge and skills acquired in the statistics course. Three hrs. lecture. Prerequisites: Psy 320, Nurs 300, Nurs 330, Nurs 400.

Nursing Management and Leadership (S)

18.1120-430 5 hrs. cr. Investigates the role of the nurse manager responsible for clinical practitioners of a bureaucratic environment. Concepts of competitive health care environment, value of services, access to care, quality and costs of services and professional level of nursing practice are incorporated. Application of concepts through clinical lab experiences promotes the knowledge and skills in understanding and manipulating the environments in which nurses practice. Three hrs. lecture, 6 hrs. clinical lab. Prerequisites: Nurs 300, Nurs 330, Nurs 400.

Seminar in Nursing (Demand)

18.1120-498
1-3 hrs. cr.
Special topic or topics not normally included in another course. Prerequisites: Upper division standing, additional requirements will be stipulated in the syllabus of the course.

Independent Study (Demand)

18.1120-499
1-3 hrs. cr. Independent study course structured by adviser with approval of department head. Prerequisite: Advanced standing in major field. Registration in the course must be approved by adviser, department head and school dean. Minimum of 3.0 GPA required.

Paramedic Program (EMT-P)

EMT-P (Paramedic) (Demand)

17.9999-295 12 hrs. cr. Classroom instruction supplemented by clinical observation and experience. The program meets over a two semester period. The classroom phase consists of three 3-hr. sessions per week. The clinical training is arranged through area hospitals and ALS ambulance services. Applicants must be at least 18 years of age, hold a high school diploma or equivalent and possess a current state ambulance license. A minimum of one year experience in the emergency medical field is preferred. Requirements for admission and for curriculum may change as the State Bureau of Emergency Medical Services may modify these for licensing. Special book and equipment fees are assessed for this

Courses/Radiologic Tech

course. (For additional information, contact the Continuing Education Office or School of Technology.)

Radiologic Technology (Rad)

Introduction to Radiology

17.0209-101 3 hrs. cr. An introduction to the radiology department, including basic procedures and equipment. Includes organization, function and supervision of a radiology department with a history of X-ray, ethical principles and legal aspect of technology and elementary radiation protection. Two hrs. lecture, 2 hrs. lab per week. Prerequisite or corequisite Bio 306.

Medical Terminology

17.0209-111 3 hrs. cr. Provides a background in the language of medicine, especially as related to radiology, through a comprehensive study of the more common medical roots, prefixes and suffixes. Every attempt is made to relate medical roots to everyday English words. A survey of medical and surgical diseases is included. Three hrs. lecture per week.

Patient Care and Special Procedures in Radiology 17.0209-121 3 hrs. cr. Routine and special care of the patient. Includes sterile techniques, preparation of contrast media, special attention is given to the visualization of the digestive, urinary and reproductive organs. Three hrs. lecture per week.

Principles of Radiographic Exposure

17.0209-132

3 hrs. cr. The fundamental principles of technique and technique conversion with particular emphasis on the factors that directly and indirectly affect radiographic exposure. Emphasis on radiation protection and darkroom chemistry and techniques. Three hrs. lecture per week.

Radiographic Positioning I

17.0209-142 3 hrs. cr. Basic radiographic positioning including both standard and specialized position of the extremities and spine. Film critique and radiation protection are included. Two hrs. lecture, 3 hrs. lab and 12 hrs. clinic per week.

Film Critique

17.0209-160 2 hrs. cr. Develops student's ability to evaluate X-ray films as to technical quality and diagnostic interpretation. Includes an introduction to quality assurance. One hr. lecture, 2 hrs. lab per week.

Radiologic Physics

17.0209-170 3 hrs. cr. The physics of radiology. The physical principles of X-ray production. Including theory in electricity, rectification, circuitry and basic equipment maintenance. Three hrs. lecture per week.

Practicum in Radiology I

17.0209-180 4 hrs. cr. Intensified clinical training in the areas of urology, surgery, special procedure, fluroscopy and general radiography. Course meets for 12 weeks summer session. Thirty-five hrs. clinic per week.

Radiographic Positioning II

17.0209-241 3 hrs. cr. In-depth study of routine and special views of the skull and facial bones. Film critique, radiation protection and skull anatomy review included. Two hrs. lecture, 3 hrs. lab, 20 hrs. clinic per week.

Radiographic Positioning III

17.0209-252

3 hrs. cr. Procedures and techniques for examination of various organs, including vascular studies and all special procedures. Course includes film critique, radiation protection and review of vascular anatomy. Three hrs. lecture, 20 hrs. clinic per week.

Practicum in Radiology II

17.0209-282 2 hrs. cr. Advanced clinical training. Includes an introduction to the responsibility of patient flow control. Twenty hrs. clinic per week.

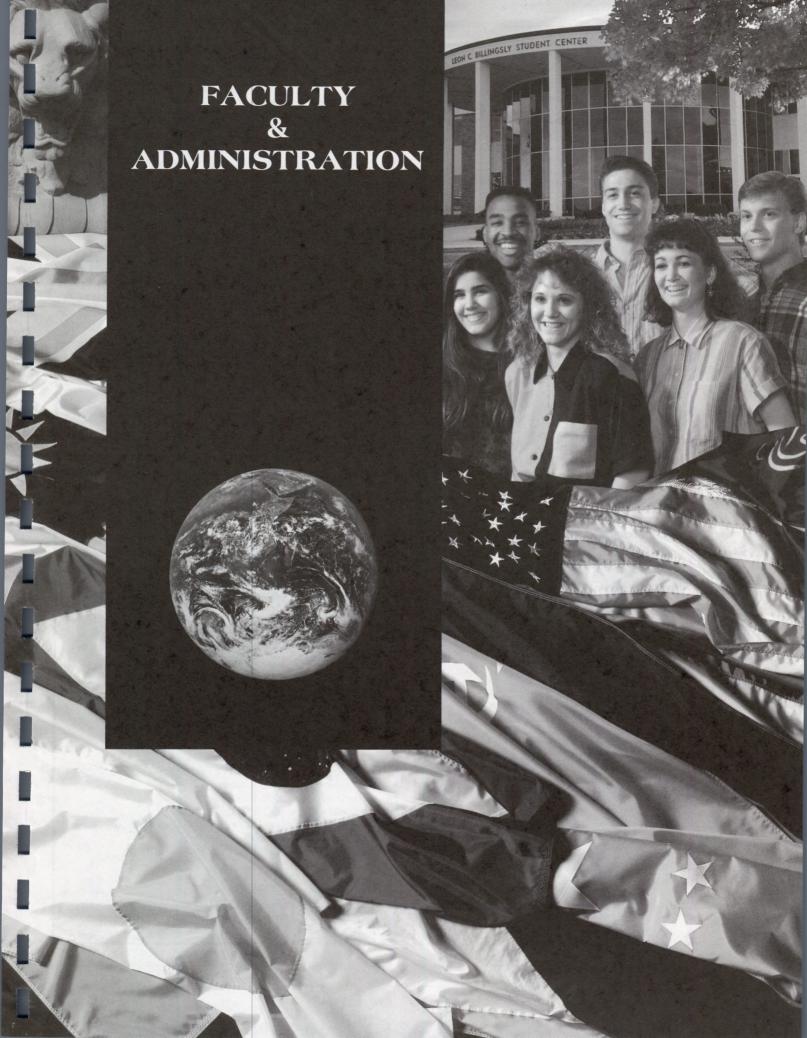
Practicum in Radiology III

17.0209-290 4 hrs. cr. Professional clinical training in which the student controls patient flow. Special attention is given to final training in special procedures and surgery. Includes radiation therapy. Course meets 12 weeks during the summer session. Thirty-five hrs. clinic per week.

Advanced Radiology

17.0209-299

3 hrs. cr.
Comprehensive review of the field of radiology including innovations, trends and anticipated advancements in the field. Three hrs. lecture per week.



College History

The citizens of Joplin, who in the late 1930s asked the public school district to offer college classes, could not have envisioned the sprawling campus and multidiscipline curriculum that today is Missouri Southern State College. From that initial request came Joplin Junior College, founded in 1937 as part of the Joplin school system. Nine faculty members and 114 students began classes under the auspices of the Extension Division of the University of Missouri in the new high school building.

In the spring of 1938, voters approved almost five to one a bond proposal that would assure the continuation of the junior college. During the next 25 years Joplin Junior College established a national reputation for outstanding academic strength, a strong foundation for what was to come. By the mid-1960s, area citizens again recognized the need for expanded educational opportunities.

In 1964, the citizens voted eight to one to create the Junior College District of Jasper County with a Board of Trustees to govern the newly named Jasper County Junior College. The following year, the Missouri General Assembly established a two-year senior college to be funded by the state when facilities of the junior college became available. The district would continue to fund the freshman and sophomore years.

The area again responded with enthusiastic and generous support to fund the building of a new campus on the site of the Mission



Hills Farm to house the growing college. Administration and faculty, working with other college educators around the state, began developing the new curriculum. In August 1967, students gathered for the first time on the new campus of Missouri Southern State College.

The dual funding arrangement with the state continued until 1977 when on July 1 the State of Missouri officially took on the responsibility of funding the entire college. Today Missouri Southern State College remains a proud member of the state's higher education family while continuing to serve the region that is an integral part of its past.

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Accreditation

North Central Association of Colleges and Secondary Schools

National Council for the Accreditation of Teacher Education

Missouri State Board of Nursing

Missouri State Department of Education

American Dental Association

American Medical Association

National League for Nursing

National Association for Accreditation of Clinical Laboratory Sciences

Committee on Allied Health Education and Accreditation

Information concerning accreditation, including copies of pertinent documents, may be obtained from the Office of the Vice President for Academic Affairs.

Administration & Faculty

Administrative Staff

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Director of Criminal JusticeJack SpurlinDirector of Dental ScienceSandra ScorseDirector of Military ScienceMajor James Dunn, Jr.Director of NursingBarbara BoxHead LibrarianCharles H. Kemp
Director of Alumni Affairs Kreta C. Gladden Director of Continuing Education, Conferences and Workshops R. Jerry Williams Director of Public Information Gwen E. Hunt Registrar. Eugene C. Mouser Director of Missouri Southern Foundation W. Sue Billingsly Director of Computer Center J. Steve Earney
Director of Student Life
Director of Admissions
Bookstore Manager Charles D. Moss Director of Office Services Ron Foster Director of Safety & Security Bill Boyer Director of Personnel Douglas Coen Director of Purchasing David Throop Director of Physical Plant Bob Beeler

(Effective Spring 1991)

Faculty

(Date indicates first year of MSSC service)

David L. Ackiss

Associate Professor, English 1981 Bachelor's (A.B.), Davidson College Master's (M.A.), College of William and Mary

Doctorate (Ph.D.), Duke University Post Doctoral Studies, Oxford University, England

Christine B. Ackiss

Assistant Professor, Nursing 1981 Bachelor's (B.S.N.), University of Connecticut Master's (M.S.N.), University of North Carolina

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Associate Professor, Biology 1988 Bachelor's (B.S.), University of Southern Mississippi Master's (M.A.), Montevallo University Doctorate (Ph.D.), University of Southern Mississippi

Larry R. Albright, II

Professor, Chemistry 1969
Bachelor's (B.S.), Northwest Missouri
State University
Master's (M.S.), University of Nebraska
Doctorate (Ph.D.), University of
Nebraska

Ann Allman

Instructor, Counselor 1988 Bachelor's (B.A.), University of Missouri Master's (M.Ed.), University of Missouri Doctoral Studies, University of Missouri

Grace Ayton

Assistant Professor, Nursing 1986 Bachelor's (B.S.N.), Columbia Union College Master's (M.N.), Wichita State University

Brian C. Babbitt

Professor, Psychology 1977
Bachelor's (B.A.), Western Washington
State College
Master's (M.A.), University of New
Mexico
Doctorate (Ph.D.), University of New
Mexico

Vernon D. Baiamonte

Professor, Chemistry 1967
Physical Science Department Head
Bachelor's (A.B.), Colorado State
College
Master's (M.A.), Colorado State College
Doctorate (Ph.D.), Indiana University

Scott L. Ballard

Instructor, Physical Education 1990 Women's Basketball Coach Bachelor's (B.S.), Southwest Missouri State University Master's (M.S.), Drury College

Michael E. Banks

Bachelor's (B.S.), Oklahoma State University Master's (M.S.), New Mexico Highlands University

Associate Professor, Education 1975

Doctorate (Ph.D.), University of Kansas

Francis L. Bartholet Jr.

Instructor, Drafting 1987
Bachelor's (B.S.), St. Cloud State
University
Master's (M.Ed.), University of
Minnesota
Doctoral Studies, University of Iowa

Wiley A. Beals

Instructor, Radiologic Technology 1982 Associate's (A.S.), Missouri Southern State College Graduate, Burge School of Radiologic Technology Registered Radiologic Technologist American Registry of Radiologic Technologists

Sallie L. Beard

Assistant Professor, Physical Education 1972 Director of Women's Athletics Bachelor's (B.S.), Missouri Southern State College Master's (M.S.), Pittsburg State University

Eugene C. Bell

Professor, Business 1989
Bachelor's (B.A.), University of Texas
Master's (M.B.A.), Harvard University
Doctorate (Ph.D.), University of Houston

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Associate Professor, Biology 1963 Bachelor's (B.S.), Pittsburg State University Master's (M.S.), Pittsburg State University Doctorate (Ed.D.), University of Arkansas

Robert Black

Instructor, Library 1988 Bachelor's (B.A.), Millikin University Master's (M.B.A.), University of Indiana Master's (M.L.S.), Illinois State University

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Professor, Business 1987 Bachelor's (B.A.), Millsaps College Master's (M.B.A.), University of Southern Mississippi Doctorate (Ph.D.), University of Arkansas

Harold W. Bodon

Professor, Communications 1971 Bachelor's (B.A.), University of Utah Master's (M.S.), California State University-Hayward Doctorate (Ph.D.), Brigham Young University

Barbara Box

Associate Professor, Nursing 1986 Director Bachelor's (B.S.N.), Carlow College Master's (M.S.), University of Oklahoma Doctorate (Ed.D.), Oklahoma State University

Karen Bradshaw

Instructor, Business 1986 Bachelor's (B.S.B.A.), Pittsburg State University Master's (M.B.A.), Pittsburg State University

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Assistant Professor, Philosophy 1987 Bachelor's (B.A.), Kalamazoo College Master's (M.A.), Columbia University Master's (M.A.), University of Rochester Doctorate (Ph.D.), University of Rochester

(Revised 4/30/91)

James F. Brown

Assistant Professor, English 1984 Bachelor's (B.S.), University of Iowa Master's (M.A.), University of Iowa (English)

Master's (M.A.), University of Iowa (Education)

Doctoral Studies, University of Iowa

Robert Charles Brown

Professor, Vice President for Academic Affairs 1987

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University, England

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Master's (M.Ed.), Trinity University
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Jan Fitzgerald

Lecturer, English Bachelor's (B.S.), University of Illinois Master's (M.A.), University of Illinois

Affiliated Faculty

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Carl W. Brown Master Sergeant

R.O.T.C. Paul M. Rivette

Captain R.O.T.C. Bachelor's (B.S.B.A.), University of Kentucky, Lexington

James L. Ross Master Sergeant R.O.T.C.

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Supervising Dentist, 1988 Bachelor's (B.S.), Pittsburg State University Doctorate (D.D.S.), University of

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Leo Dougherty, MT (ASCP)

Program Director School of Medical Technology St. John's Regional Medical Center

John R. Esther, M.D. Medical Director

School of Medical Technology St. John's Regional Medical Center

Claudette Millstead, MT (ASCP)

Program Director School of Medical Technology St. John's Regional Health Center

Robert Druet, M.D.

Medical Director School of Medical Technology St. John's Regional Health Center

Mary S. Wolfe, MT (ASCP)

Program Director School of Medical Technology Lester E. Cox Medical Center

Paul S. Quinn

Medical Director School of Medical Technology Lester E. Cox Medical Center

Jeffrey F. Schaffer, M.D. Medical Director/Advisor

School of Radiologic Technology

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Assistant Professor, History 1963 Bachelor's (B.S.), Pittsburg State University Master's (M.S.), Pittsburg State University

Grace C. Mitchell

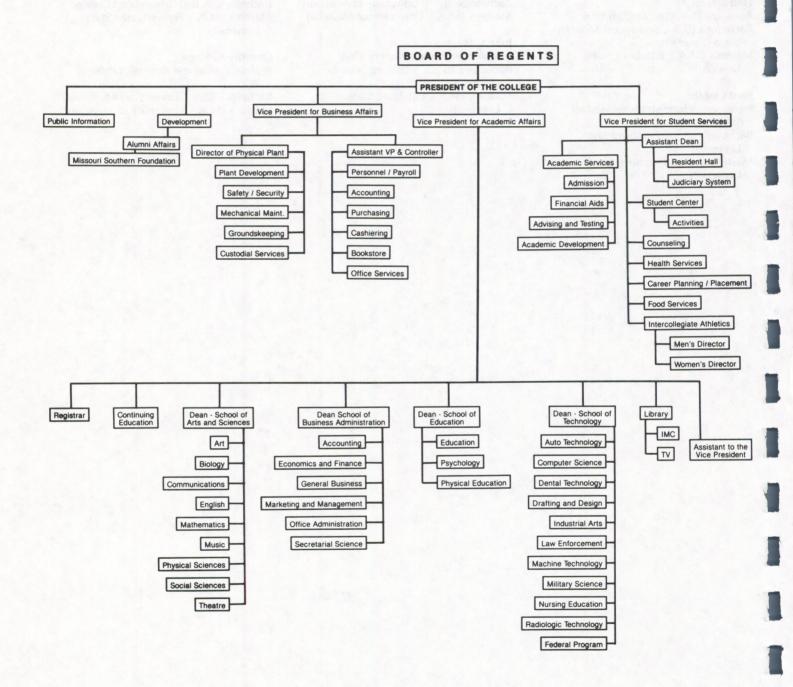
Assistant Professor, English 1958 Bachelor's (A.B.), Greensboro College Master's (M.A.), Pennsylvania State University

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Professor, Business Administration 1939

Bachelor's (B.S.), University of Missouri Master's (M.A.), University of Missouri

College Organization



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Equal Opportunity

Missouri Southern State College does not discriminate on the basis of handicap, race, color, religion, national origin, sex or age in the recruitment and admission of student, the recruitment and employment of faculty and staff and the operation of any of its programs and activities, as specified by Federal laws and regulations. The Director of Personnel is the designated coordinator for compliance with Section 504 of the Rehabilitation Act of 1973, Title VI of the Civil Rights Act of 1964, Title IX of the Education Amendments of 1972 and the Age Discrimination Act of 1967.

Handicap Access

Missouri Southern State College reschedules and relocates classes to ensure accessibility under Section 504 of the Rehabilitation Act of 1973. If any person has a class in an inaccessible location, please contact the Director of Counseling who, in conjunction with the office of the Vice President for Academic Affairs, will reschedule or relocate the class to provide accessibility. Information concerning accessible facilities is available from the Assistant to the President.

Family Educational Rights and Privacy

The College may disclose personally identifiable information from an educational record of a student without consent in following situations:

 The disclosure is directory information which includes name, address, telephone listing, date and place of birth, major, participation in activities and sports, dates of attendance, degrees and awards received and most recent previous institution attended.

- 2. The disclosure is to school officials, including teachers, who have a legitimate education interest.
- The disclosure is to parents of a dependent student as defined in the Internal Revenue Code.
- The disclosure is in connection with a health or safety emergency.
- 5. Other situations listed in 34CFR 99.31.

Policy Changes

The College reserves the right to make changes as required in course offerings, curricula, academic policies and other rules and regulations affecting students, to be effective whenever determined by the College. These changes will govern current and formerly enrolled students. Enrollment of all students is subject to these conditions.

Honors Program Application

Name Mr.	
Social Security No:	Initial Telephone No: () (Area Code)
Address:Street Town	State Zip
ACT Composite Score:	Check below if one applies. National Merit Finalist National Merit Semi-Finalist National Merit Letter of Commendation Please list extracurricular activities and interests below. Attach a separate sheet if necessary.
For already enrolled or transfer student College or University Attended: Hours Completed: GPA: Quarter System	
Semester System	For office use only:
Signature Date	Incoming Freshman Already Enrolled Transfer Student
Date	Transcript

INSTRUCTIONS

REOUIREMENTS

For entering freshmen, an Enhanced ACT composite score of 28 or above or a GPA of at least 3.5 (on a 4-point scale) is required for eligibility to apply for admission to the Honors Program.

Students who have completed at least 15 but fewer than 30 hours of coursework with a least a 3.5 GPA either at MSSC or at another accredited college or university are eligible to apply for admission to the Honors Program.

APPLICATIONS PROCEDURES

Incoming Freshman

- *A completed APPLICATION FORM must be filed.
- *Please request that an official high school TRANSCRIPT be sent directly to the Honors Program.
- *Your ACT RESULTS must be on record, either separately, or on your transcript.
- *Arrange to have two LETTERS OF RECOMMENDA-TION sent directly to the Honors Program, one from your high school principal and one from one of your high school teachers. Additional letters are also invited.
- *You will need to arrange for an INTERVIEW.
- *You may be required to submit an ESSAY describing your academic goals and explaining your participation in the Honors Program.

Already Enrolled or Transfer Student

- *A completed APPLICATION FORM must be filed.
- *Please request that an official college TRANSCRIPT be sent directly to the Honors Program.
- *Your ACT RESULTS must be on record, either separately or on your transcript.
- *Arrange to have two LETTERS OF RECOMMEN-DATION from your college instructors sent directly to the Honors Program. Additional letters are also invited.
- *You will need to arrange for an INTERVIEW.
- *You may be required to submit an ESSAY describing your academic goals and explaining your participation in the Honors Program.

For consideration for entrance into the program in the fall semester, all application materials should be received by April 1; for the spring semester all materials should be received by November 15.

Send all application materials to:

Honors Program Director Missouri Southern State College Joplin, MO 64801-1595

Telephone: Toll free in Missouri 1-800-492-4811

Telephone: In Joplin 1-417-625-9300, 625-9686 or 625-9748

Missouri Southern State College is an equal opportunity and affirmative action institution.

The college reserves the right to amend regulations when necessary

GPA	Need	Other Scholarship	Code	Activities
		Office Use Only		

Missouri Southern State College

Please complete application on both sides

3950 Newman Road Joplin, Missouri 64801-1595 417-625-9300

Scholarship Application

Note: By filing this form you will be considered for any one of 200 Patron Scholarships available through the Missouri Southern State College Scholarship program.

How to apply:

- 1. Must apply or have applied for admission.
 - 2. Transfer students must have transcripts on file with Registrar's Office. (Transfer students may be eligible for Junior College Transfer Scholarships. Please contact the Financial Aid Office at Missouri Southern State College.).

3. Type or Print application.			
Name			
First Middle of		Last	Maiden
Social Security Number	Phone		
Address			
Address Number of Street City	State	Zip	County
Male Female Married	Single _		
Date of High School Graduation			
High School Attended	City	/State	
Entering Freshman Freshman (0 hrs)	Sophomore ge last attended	(30-59 hrs) Junio	(60-89 hrs)
Check criteria which apply to you. 1. Career choice is mental health. 2. Student Nurses' Association (SNA) 3. Interested in medical profession 4. Speech and debate 5. Work with handicapped children 6. Freeman Hospital employee 7. Piano major 8. Rainbow member 9. Father or Grandfather Lions Club Member 10. Interested in technology major 11. Minority (optional):* Black (non-hispanic); White (non-hispanic); American Indian; Hispanic; Asian; other	New College Application will not completed and signe or College Registrar. High School GPA of (HS) 7th semester College) Last Seme Signature Date	tering Freshmen or ge Transfer Students be processed unless of by your HS counse on a 4.00 grade point GPA: Title	this section is elor/principal system

^{*}Some scholarships may have criteria based on minority.

	ng any of the following scholarships?
President's _	Regents' Performing Aids Athletic Honors
Deans'	Other (List)
	tly employed? If yes, list place of employment
(If dependent)	Father's employer
(If dependent)	Mother's employer
(If married) Spo	ouse's employer
Note: Please co	omplete the following:
	ors:
Organizations:	
Volunteer Wor	k:
All qualified a	oplicants will receive consideration without regard to non-merit factors: race, sex, creed or
Statement of C College to per	ertification: If I am awarded a scholarship, I hereby give my consent for Missouri Southern State mit the donor of the scholarship to review my scholarship record files.
I understand t State College	nat in order to receive assistance from the scholarship program administered by Missouri Southern must maintain satisfactory academic progress.
I further unde	stand that application to the scholarship program must be turned in prior to April 1.
Pres mo by 2. Sch sch 3. All 4. All	dents may not receive more than one scholarship issued by the College. This includes the Honors, sident's, Regents', Jr. College, Deans', and Patrons Scholarship Program. Outstanding students who receive the than one scholarship must choose which award they will accept unless special approval is made the Director of Student Financial Aid. olarship recipients may receive athletic and performing awards which must be coordinated with the olarship; not to exceed the student's college costs. scholarships are issued for one year only. Scholarships are subject to change without notice and are subject to review by the scholarship committee on receipt of funds and authorization by the Board of Regents.
Date Signed	Signature
Revised 06/90	

